APPENDIX B

AQUIFER TEST ANALYSIS GRAPHS AND DATA

Table B-1
Muscoy OU 2003 Pumping Test Additional Methods
(Uncorrected for Regional Trend)

Pumping Well	Observation Well	Distance from Pumping Well (feet)	Maximum Drawdown (feet)	Regional Water Level Trend (feet per day)	Adjusted Drawdown	Theis Recovery		Cooper Jacob			Hantush Jacob			Ave of Ave T
						T (ft^2/day)	K (ft/day)	T (ft^2/day)	K (ft/day)	S	T (ft^2/day)	K (ft/day)	S	
EW-108	MW-135B	1,398	8.31	-0.27	7.22	2.06E+04	3.43E+01	1.95E+04	3.25E+01	2.61E-04	2.27E+04	3.79E+01	3.35E-04	
	MW-135C	1,398	6.22	-0.41	4.57	3.49E+04	5.81E+01	3.28E+04	5.47E+01	3.13E-04	3.45E+04	5.74E+01	2.68E-04	
	EW-1PB	2,290	3.27	-0.42	1.59	7.80E+04	1.30E+02	4.61E+04	7.68E+01	9.97E-04	4.28E+04	7.13E+01	1.11E-03	
	MW-12C	2,391	4.80	-0.44	3.04	4.58E+04	7.63E+01	3.67E+04	6.12E+01	2.78E-04	3.78E+04	6.29E+01	3.11E-04	
	MW-12B	2,391	5.38	-0.41	3.74	3.81E+04	6.35E+01	3.21E+04	5.34E+01	2.19E-04	3.63E+04	6.05E+01	2.56E-04	
	MW-136C	2,970	5.33	-0.27	4.24	2.80E+04	4.67E+01	2.75E+04	4.58E+01	3.99E-04	2.80E+04	4.67E+01	3.47E-04	
	MW-10A	3,162	1.62	-0.07	1.35	4.24E+04	7.06E+01	4.73E+04	7.88E+01	3.82E-03	3.09E+04	5.14E+01	5.29E-03	
	MW-10B	3,162	2.50	-0.28	1.39	9.08E+04	1.51E+02	6.18E+04	1.03E+02	6.92E-04	6.21E+04	1.04E+02	7.39E-04	
	MW-10C	3,162	2.69	-0.30	1.47	8.28E+04	1.38E+02	5.35E+04	8.92E+01	7.09E-04	6.36E+04	1.06E+02	6.31E-04	
	MW-13B	3,794	2.78	-0.46		1.44E+05	2.40E+02	5.83E+04	9.72E+01	5.64E-04	6.13E+04	1.02E+02	4.91E-04	
	MW-13C	3,794	2.76	-0.47	0.86	1.24E+05	2.06E+02	5.19E+04	8.65E+01	6.75E-04	6.15E+04	1.03E+02	6.23E-04	
	MW-11A	3,877	2.50	-0.41	0.88	1.30E+05	2.17E+02	6.83E+04	1.42E+02	5.60E-04	6.12E+04	1.02E+02	6.03E-04	
	MW-11C	3,877	2.69	-0.43	0.98	1.50E+05	2.50E+02	5.79E+04	9.65E+01	6.29E-04	7.03E+04	1.17E+02	7.25E-04	
	MW-130C	4,983	3.60	-0.29	2.43	3.99E+04	6.65E+01	3.57E+04	5.95E+01	4.23E-04	3.10E+04	5.16E+01	5.28E-04	
	MW-14B	5,001	2.97	-0.56	0.72	NC	NC	5.91E+04	9.85E+01	5.86E-04	6.21E+04	1.04E+02	7.15E-04	
	MW-14C	5,001	2.51	-0.47	0.63	NC	NC	6.32E+04	1.05E+02	6.31E-04	6.75E+04	1.12E+02	8.51E-04	
	MW-138C	6,087	3.14	-0.31	1.88	5.58E+04	9.30E+01	2.37E+04	3.95E+01	6.96E-04	2.29E+04	3.82E+01	8.34E-04	
	MW-128C	7,717	2.51	-0.25	1.51	3.61E+04	6.02E+01	3.56E+04	5.93E+01	4.65E-04	2.81E+04	4.68E+01	6.61E-04	
AraMean						7.13E+04	1.19E+02	4.51E+04	7.66E+01	7.18E-04	4.58E+04	7.64E+01	8.51E-04	5.41E+04
GeoMean						5.95E+04	9.91E+01	4.25E+04	7.16E+01	5.55E-04	4.26E+04	7.10E+01	6.16E-04	4.82E+04
Median						5.08E+04	8.47E+01	4.67E+04	7.78E+01	5.75E-04	4.03E+04	6.71E+01	6.27E-04	4.59E+04
SD						4.40E+04	7.34E+01	1.49E+04	2.81E+01	7.99E-04	1.73E+04	2.88E+01	1.13E-03	2.54E+04

Pumping Well	Observation Well	Distance from Pumping Well (feet)	Maximum Drawdown (feet)	Regional Water Level Trend (feet per day)	Adjusted Drawdown	Theis Recovery		Cooper Jacob			Hantush Jacob			Ave of Ave T
						T (ft^2/day)	K (ft/day)	T (ft^2/day)	K (ft/day)	S	T (ft^2/day)	K (ft/day)	S	
EW-112	MW-129A	1,515	3.56			3.59E+04	5.79E+01	4.10E+04	6.61E+01	1.69E-03	3.72E+04	6.01E+01	2.17E-03	
	MW-129B	1,515	5.71			2.03E+04	3.27E+01	1.91E+04	3.08E+01	5.92E-04	1.22E+04	1.96E+01	6.98E-04	
	MW-139A	1,773	3.69			3.20E+04	5.16E+01	2.95E+04	4.76E+01	4.15E-04	2.65E+04	4.27E+01	5.27E-04	
	MW-139B	1,773	4.37			2.21E+04	3.56E+01	2.17E+04	3.50E+01	5.86E-04	1.92E+04	3.10E+01	8.16E-04	
	MW-139C	1,773	4.20			2.42E+04	3.91E+01	3.00E+04	4.83E+01	1.11E-03	2.64E+01	4.25E+01	1.31E-03	
	MW-138A	1,608	5.49			2.65E+04	3.79E+01	2.54E+04	3.63E+01	1.70E-04	3.14E+04	4.49E+01	1.59E-04	
	MW-137A	2,502	4.36			2.89E+04	4.65E+01	2.85E+04	4.59E+01	1.97E-04	2.48E+04	4.00E+01	2.46E-04	
	MW-137B	2,502	4.69			1.68E+04	2.71E+01	2.12E+04	3.41E+01	7.07E-04	1.59E+04	2.57E+01	9.28E-04	
	MW-137C	2,502	2.38			2.22E+04	3.57E+01	3.30E+04	5.32E+01	2.57E-03	2.71E+04	4.36E+01	3.61E-03	
	MW-136A	4,649	2.36			2.63E+04	4.25E+01	3.03E+04	4.88E+01	7.80E-04	2.46E+04	3.97E+01	1.09E-03	
	MW-136B	4,649	1.88			3.47E+04	5.60E+01	3.76E+04	6.06E+01	1.15E-03	2.64E+04	4.26E+01	1.54E-03	
AraMean						2.64E+04	4.21E+01	2.88E+04	4.61E+01	9.06E-04	2.23E+04	3.93E+01	1.19E-03	2.58E+04
GeoMean						2.57E+04	4.10E+01	2.81E+04	4.48E+01	6.82E-04	1.27E+04	3.78E+01	8.59E-04	2.22E+04
Median						2.63E+04	3.91E+01	2.95E+04	4.76E+01	7.07E-04	2.48E+04	4.25E+01	9.28E-04	2.69E+04
SD						6.06E+03	9.88E+00	6.80E+03	1.13E+01	7.09E-04	1.01E+04	1.08E+01	9.90E-04	7.66E+03

Shallow Wells Grouped

EW-112	MW-129A	1,515	3.56			3.59E+04	5.79E+01	4.10E+04	6.61E+01	1.69E-03	3.72E+04	6.01E+01	2.17E-03	
	MW-136A	4,649	2.36			2.63E+04	4.25E+01	3.03E+04	4.88E+01	7.80E-04	2.46E+04	3.97E+01	1.09E-03	
	MW-137A	2,502	4.36			2.89E+04	4.65E+01	2.85E+04	4.59E+01	1.97E-04	2.48E+04	4.00E+01	2.46E-04	
	MW-138A	1,608	5.49			2.65E+04	3.79E+01	2.54E+04	3.63E+01	1.70E-04	3.14E+04	4.49E+01	1.59E-04	
	MW-139A	1,773	3.69			3.20E+04	5.16E+01	2.95E+04	4.76E+01	4.15E-04	2.65E+04	4.27E+01	5.27E-04	
AraMean						2.99E+04	4.73E+01	3.09E+04	4.89E+01	6.50E-04	2.89E+04	4.55E+01	8.38E-04	2.99E+04
GeoMean						2.97E+04	4.68E+01	3.05E+04	4.80E+01	4.49E-04	2.85E+04	4.49E+01	5.47E-04	2.96E+04
SD						4.06E+03	7.79E+00	5.92E+03	1.08E+01	6.30E-04	5.39E+03	8.44E+00	8.29E-04	5.12E+03

Table B-1
Muscoy OU 2003 Pumping Test Additional Methods
(Uncorrected for Regional Trend)

Intermediate Wells Grouped

Pumping Well	Observation Well	Distance from Pumping Well (feet)	Maximum Drawdown (feet)	Regional Water Level Trend (feet per day)	Adjusted Drawdown	Theis Recovery		Cooper Jacob			Hantush Jacob			
						T (ft^2/day)	K (ft/day)	T (ft^2/day)	K (ft/day)	S	T (ft^2/day)	K (ft/day)	S	Ave of Ave T
EW-112	MW-136B	4,649	1.88			3.47E+04	5.60E+01	3.76E+04	6.06E+01	1.15E-03	2.64E+04	4.26E+01	1.54E-03	
	MW-137B	2,502	4.69			1.68E+04	2.71E+01	2.12E+04	3.41E+01	7.07E-04	1.59E+04	2.57E+01	9.28E-04	
	MW-139B	1,773	4.37			2.21E+04	3.56E+01	2.17E+04	3.50E+01	5.86E-04	1.92E+04	3.10E+01	8.16E-04	
AraMean						2.45E+04	3.96E+01	2.68E+04	4.32E+01	8.14E-04	2.05E+04	3.31E+01	1.09E-03	2.40E+04
GeoMean						2.34E+04	3.78E+01	2.59E+04	4.17E+01	7.81E-04	2.00E+04	3.24E+01	1.05E-03	2.31E+04
SD						9.19E+03	1.49E+01	9.33E+03	1.50E+01	2.97E-04	5.37E+03	8.64E+00	3.90E-04	7.96E+03

Deep Wells Grouped

Pumping Well	Observation Well	Distance from Pumping Well (feet)	Maximum Drawdown (feet)	Regional Water Level Trend (feet per day)	Adjusted Drawdown	Theis Recovery		Cooper Jacob			Hantush Jacob			
						T (ft^2/day)	K (ft/day)	T (ft^2/day)	K (ft/day)	S	T (ft^2/day)	K (ft/day)	S	Ave of Ave T
EW-112	MW-129B	1,515	5.71			2.03E+04	3.27E+01	1.91E+04	3.08E+01	5.92E-04	1.22E+04	1.96E+01	6.98E-04	
	MW-137C	2,502	2.38			2.22E+04	3.57E+01	3.30E+04	5.32E+01	2.57E-03	2.71E+04	4.36E+01	3.61E-03	
	MW-139C	1,773	4.20			2.42E+04	3.91E+01	3.00E+04	4.83E+01	1.11E-03	2.64E+01	4.25E+01	1.31E-03	
AraMean						2.22E+04	3.58E+01	2.74E+04	4.41E+01	1.42E-03	1.31E+04	3.52E+01	1.87E-03	2.09E+04
GeoMean						2.22E+04	3.57E+01	2.66E+04	4.29E+01	1.19E-03	2.06E+03	3.31E+01	1.49E-03	1.70E+04
SD						1.95E+03	3.20E+00	7.31E+03	1.18E+01	1.03E-03	1.36E+04	1.36E+01	1.54E-03	7.61E+03

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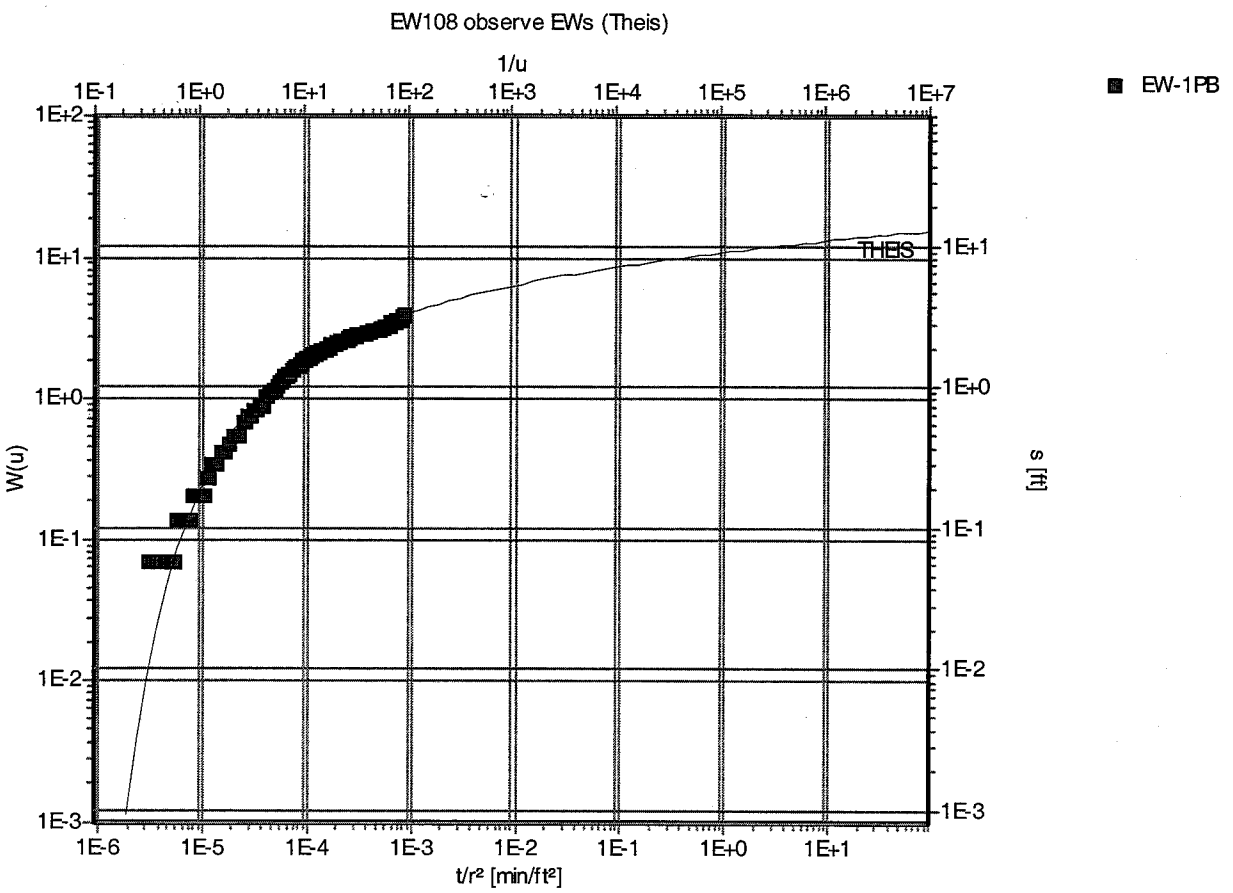
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping observe EWs**

Analysis method: **Theis**

Analysis results:	Transmissivity:	4.28E+4 [ft²/d]	Conductivity:	7.13E+1 [ft/d]
	Storativity:	1.08E-3		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

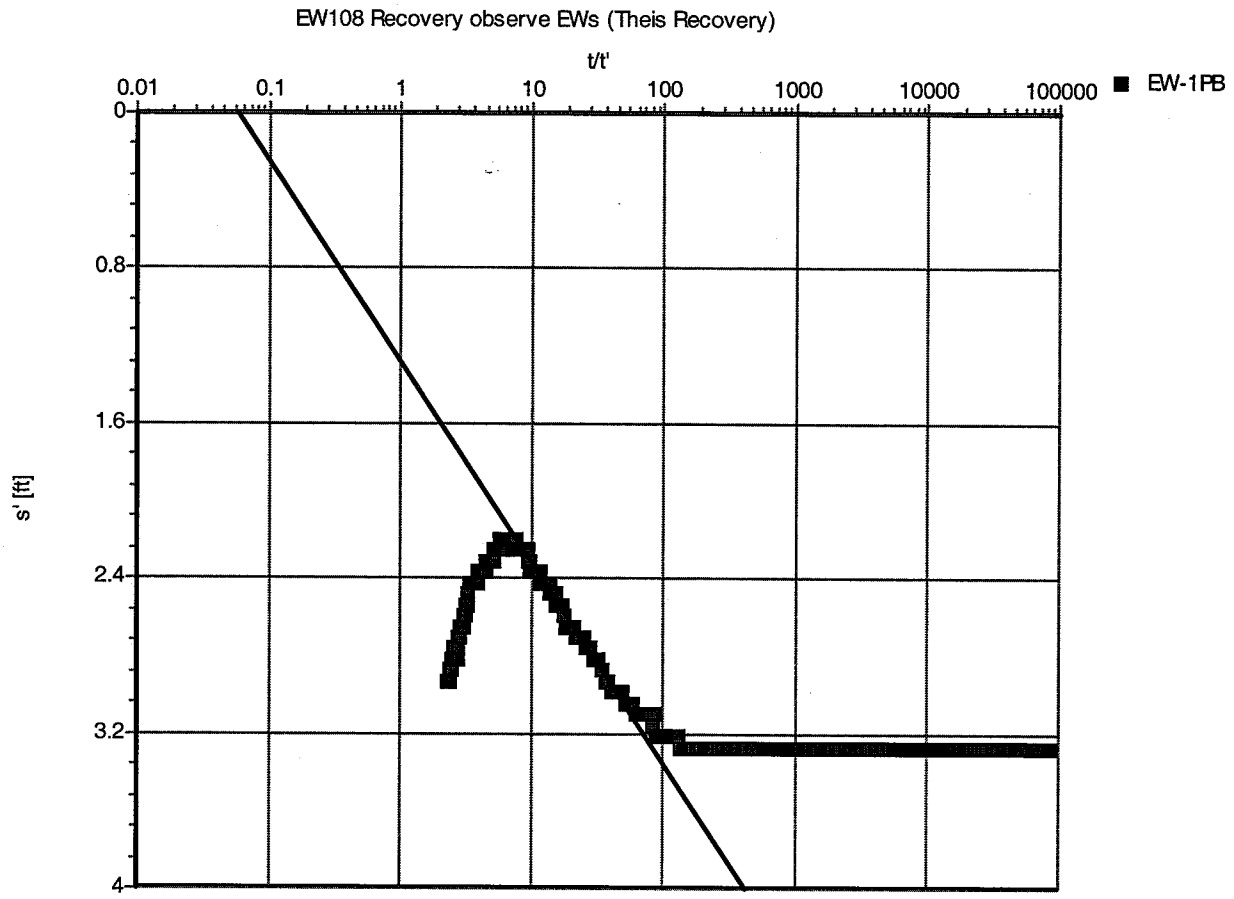
Evaluated by:

Date: 3/26/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 Recovery observe EWs**

Analysis method: **Theis Recovery**

Analysis results:	Transmissivity:	7.80E+4 [ft²/d]	Conductivity:	1.30E+2 [ft/d]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

Evaluated by:

Date: 3/27/2003

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2870 Gateway Oaks Drive, Suite 300
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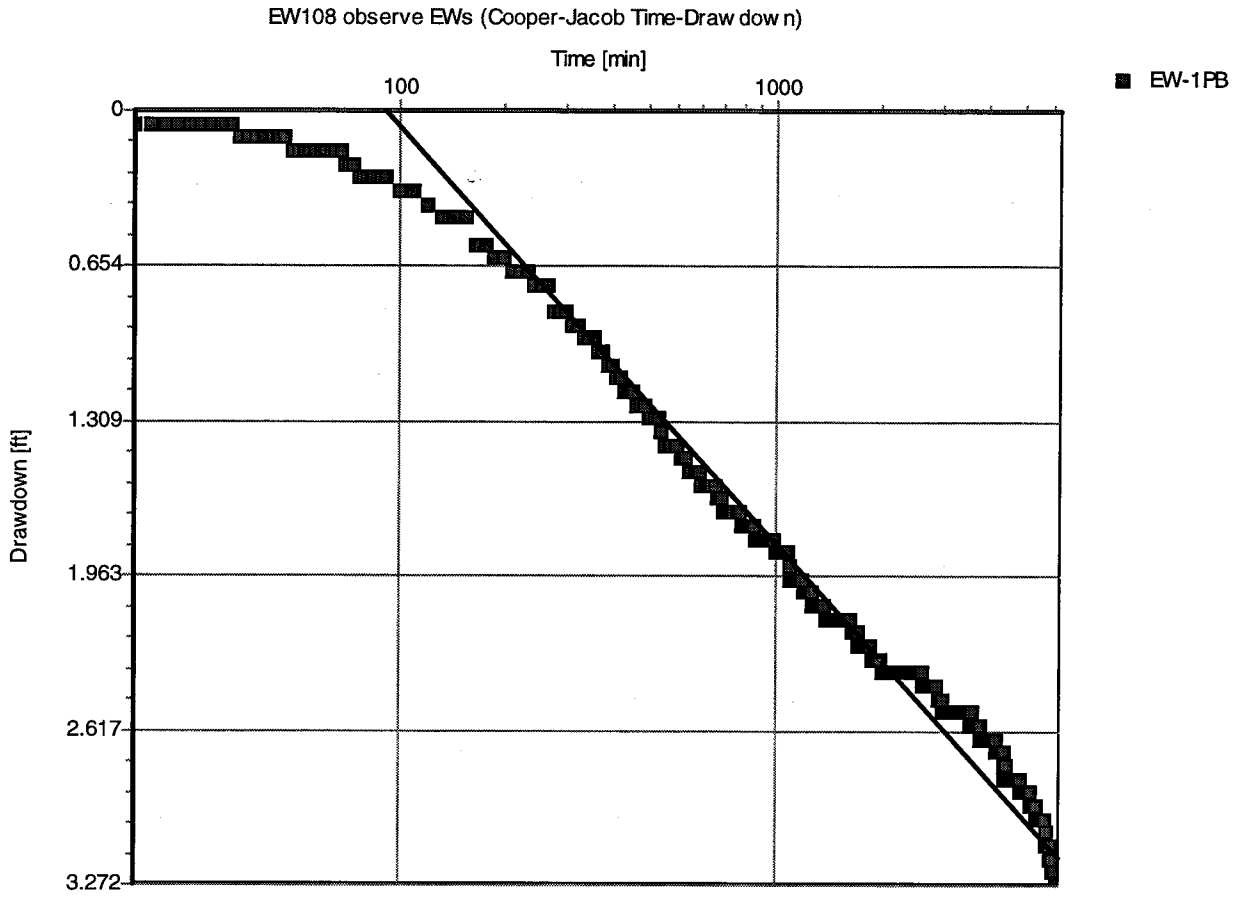
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping observe EWs**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	4.61E+4 [ft²/d]	Conductivity:	7.68E+1 [ft/d]
	Storativity:	1.26E-3		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/26/2003

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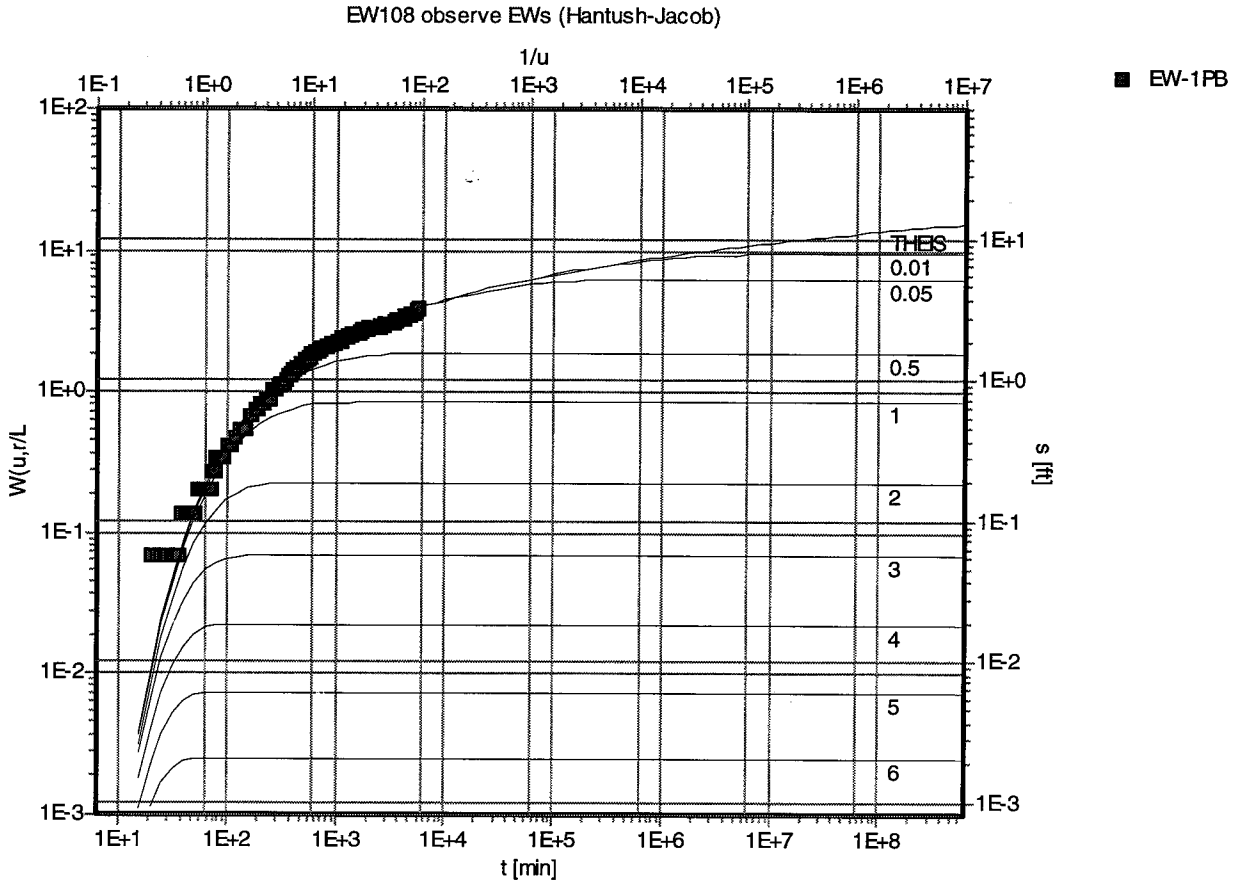
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping observe EWs**

Analysis method: **Hantush-Jacob**

Analysis results:				
	Transmissivity:	4.28E+4 [ft²/d]	Conductivity:	7.13E+1 [ft/d]
	Storativity:	1.40E-3	c:	1.76E+9 [min]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/26/2003

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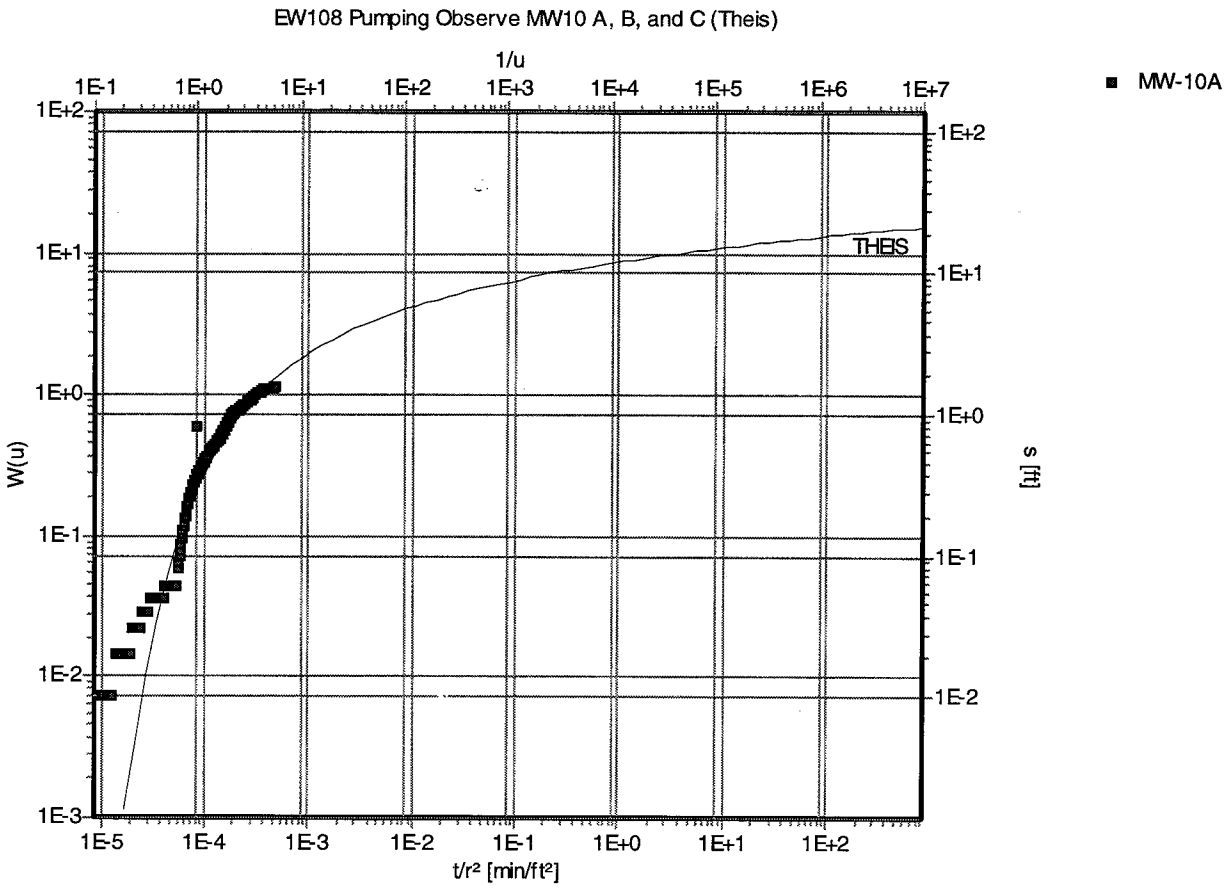
Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis**

Analysis results:	Transmissivity:	2.57E+4 [ft²/d]	Conductivity:	4.28E+1 [ft/d]
	Storativity:	6.07E-3		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/26/03

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2870 Gateway Oaks Drive, Suite 300
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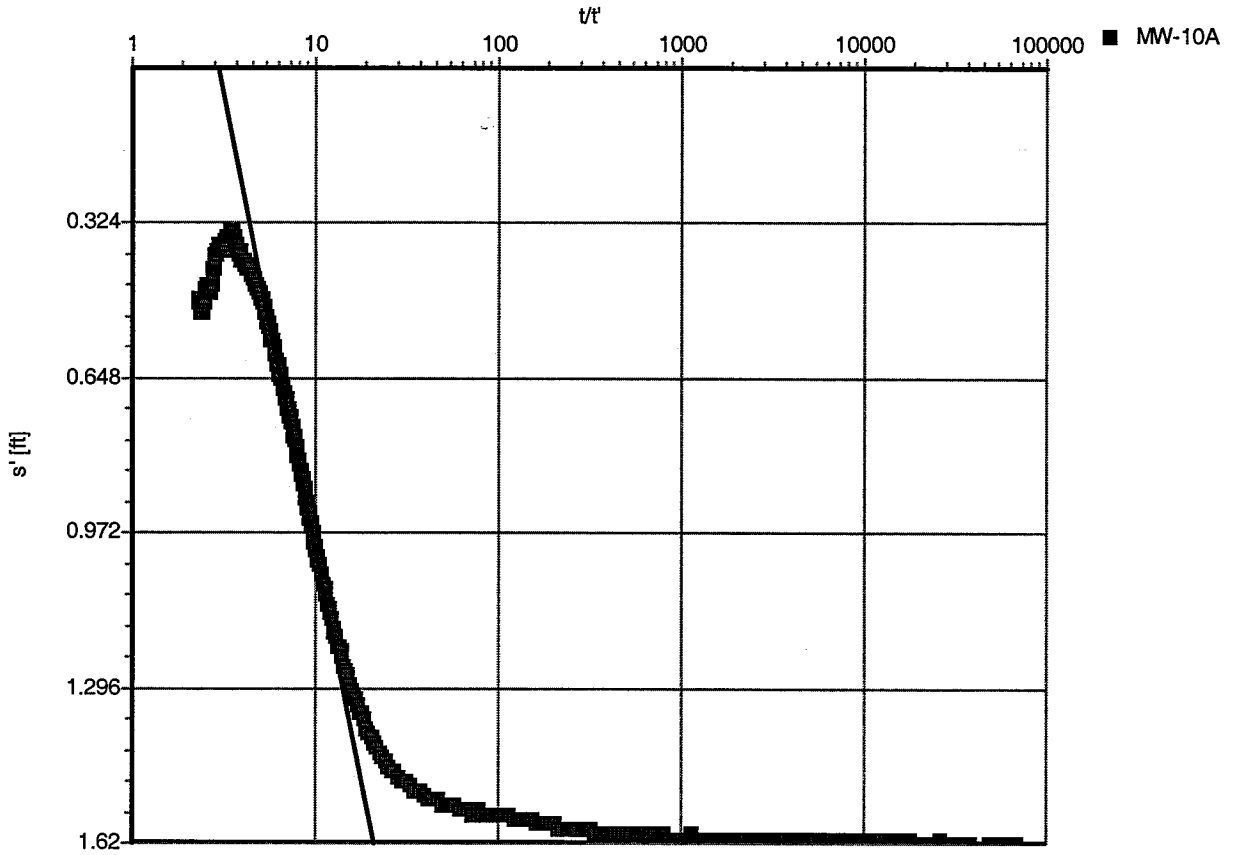
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Theis Recovery)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis Recovery**

Analysis results:	Transmissivity:	4.24E+4 [ft²/d]	Conductivity:	7.06E+1 [ft/d]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

Evaluated by:

Date: 3/27/2003

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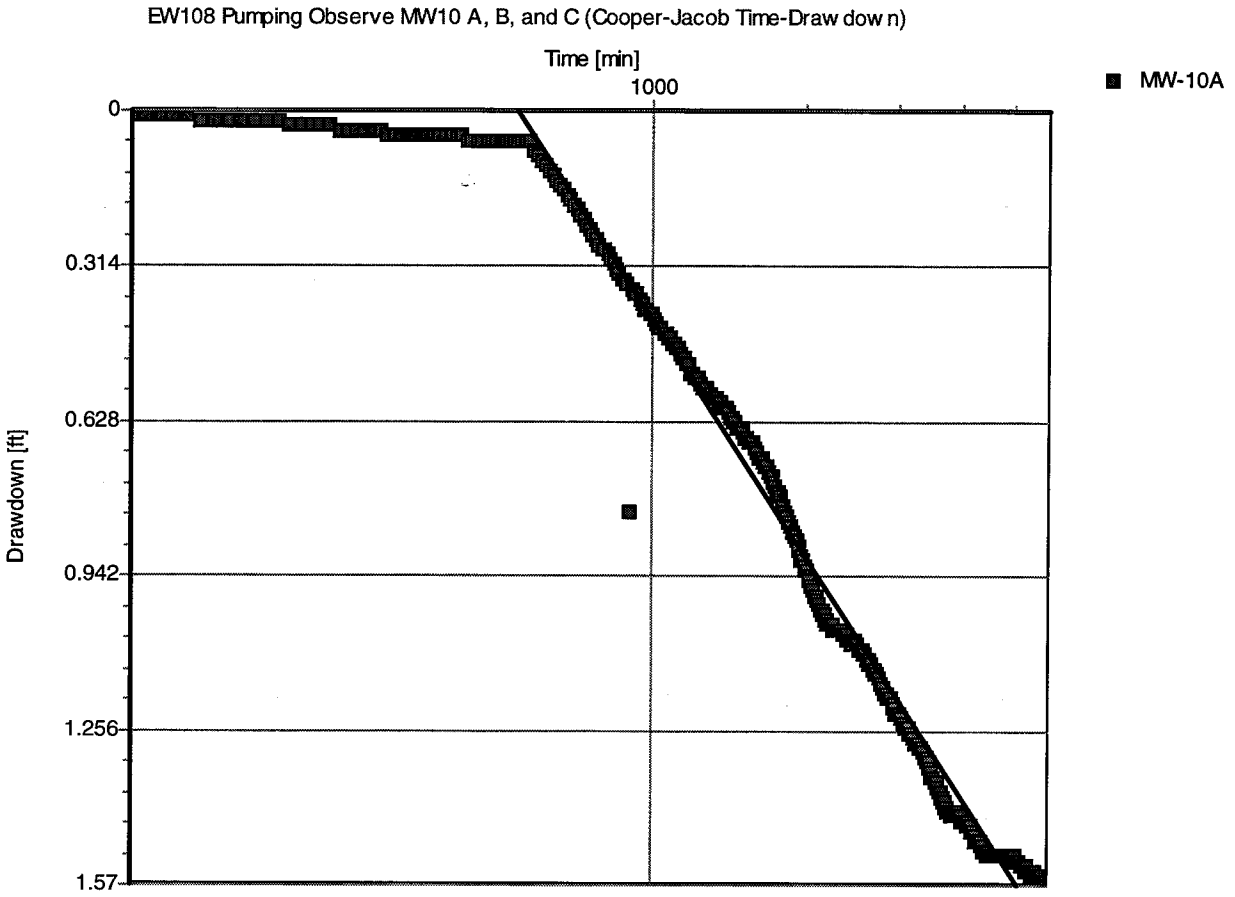
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	4.73E+4 [ft²/d]	Conductivity:	7.88E+1 [ft/d]
	Storativity:	4.19E-3		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/27/2003

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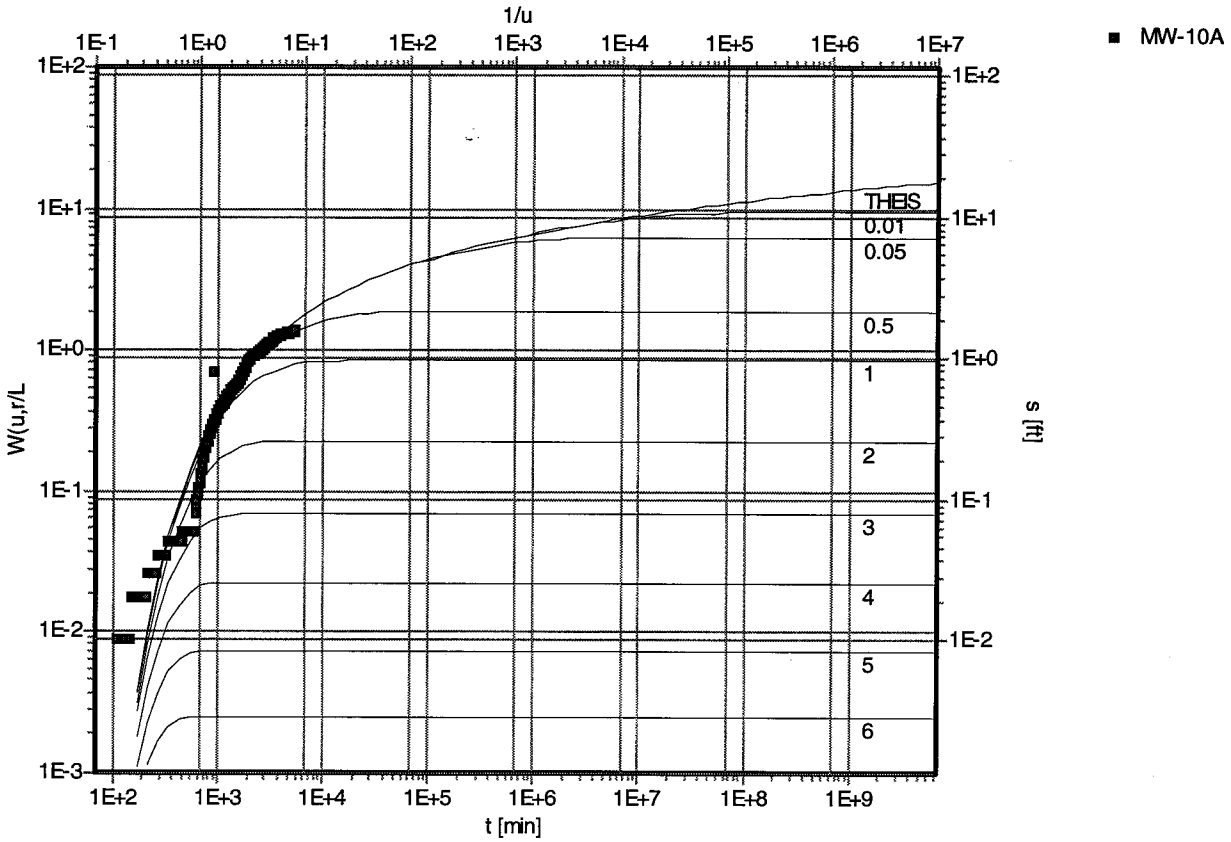
Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Hantush-Jacob)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	3.09E+4 [ft²/d]	Conductivity:	5.14E+1 [ft/d]
	Storativity:	5.80E-3	c:	4.67E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/26/2003

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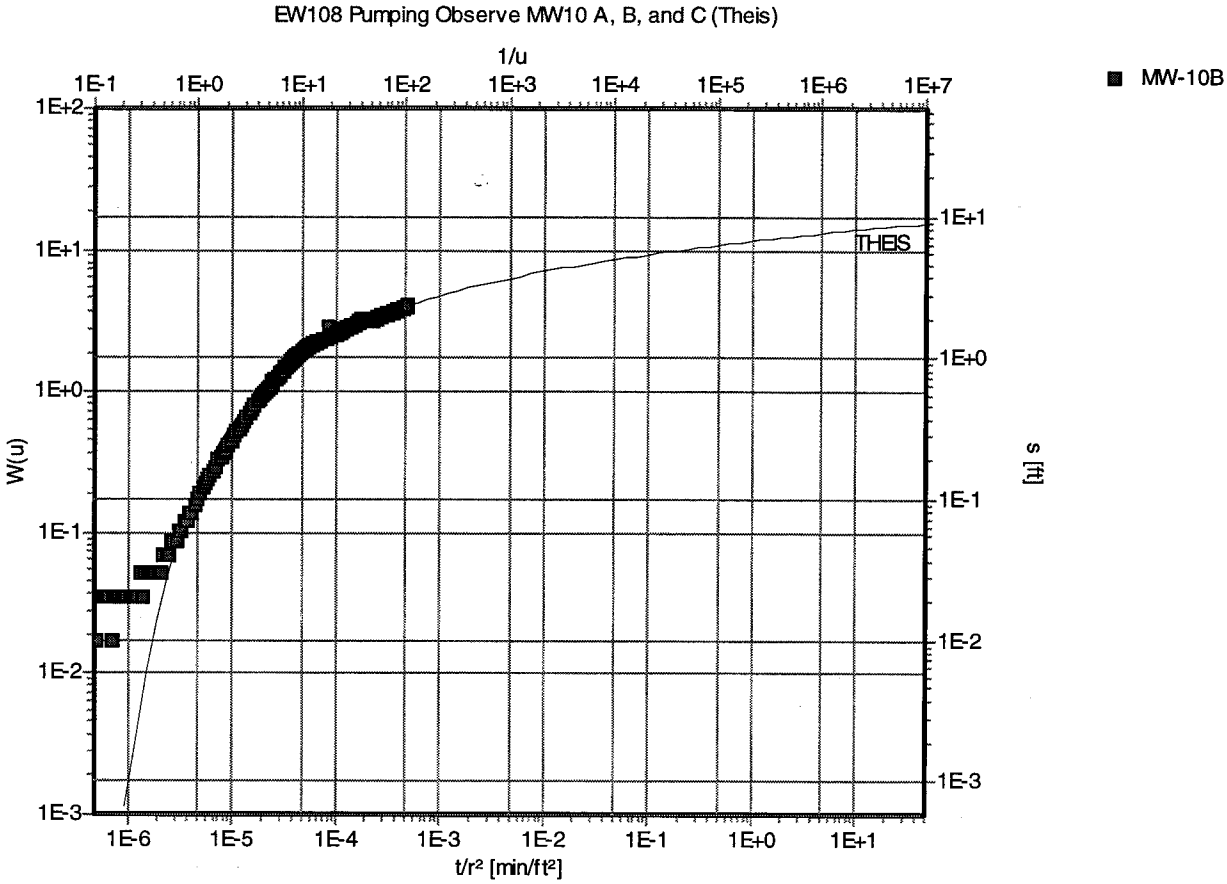
Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis**

Analysis results:	Transmissivity:	6.08E+4 [ft²/d]	Conductivity:	1.01E+2 [ft/d]
	Storativity:	7.91E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

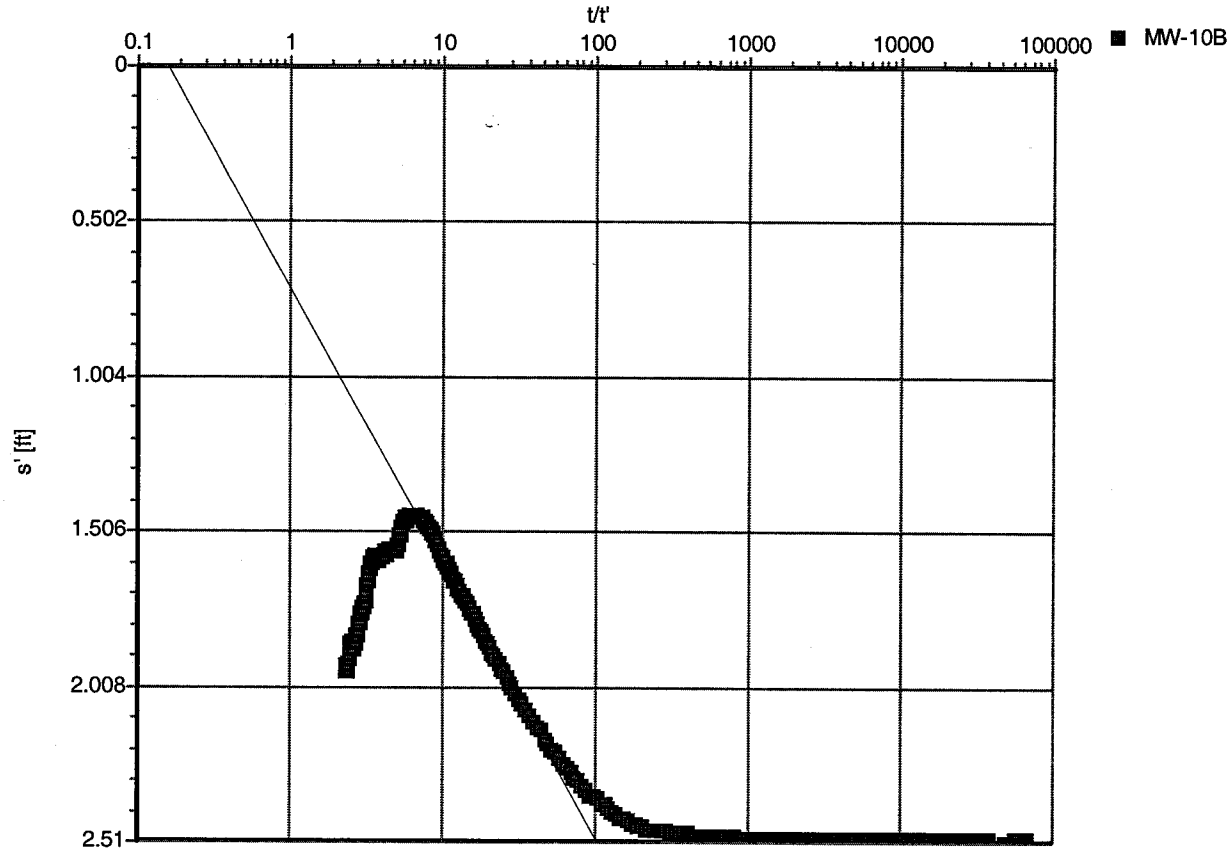
Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Theis Recovery)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis Recovery**

Analysis results:				
	Transmissivity:	9.08E+4 [ft²/d]	Conductivity:	1.51E+2 [ft/d]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

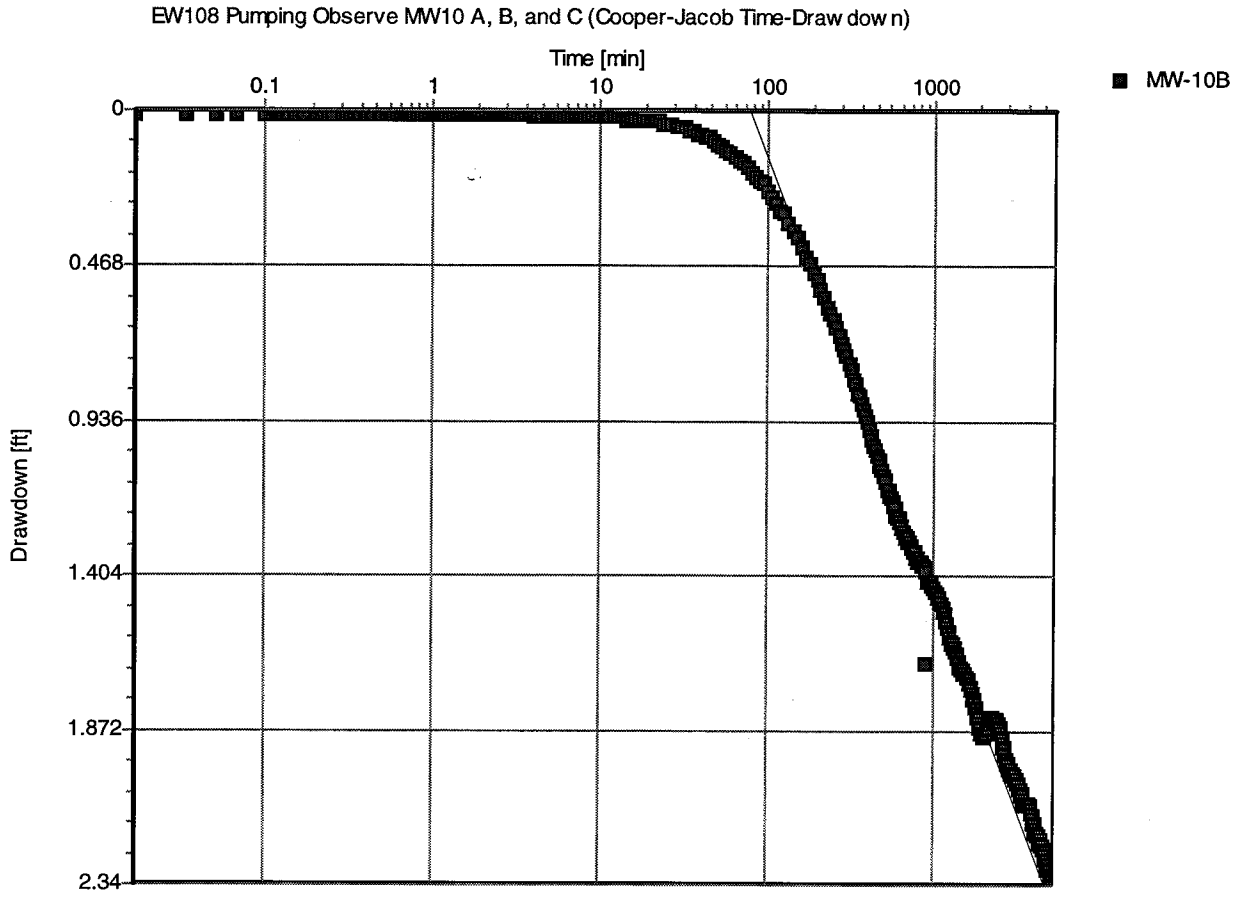
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	6.18E+4 [ft²/d]	Conductivity:	1.03E+2 [ft/d]
	Storativity:	7.59E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

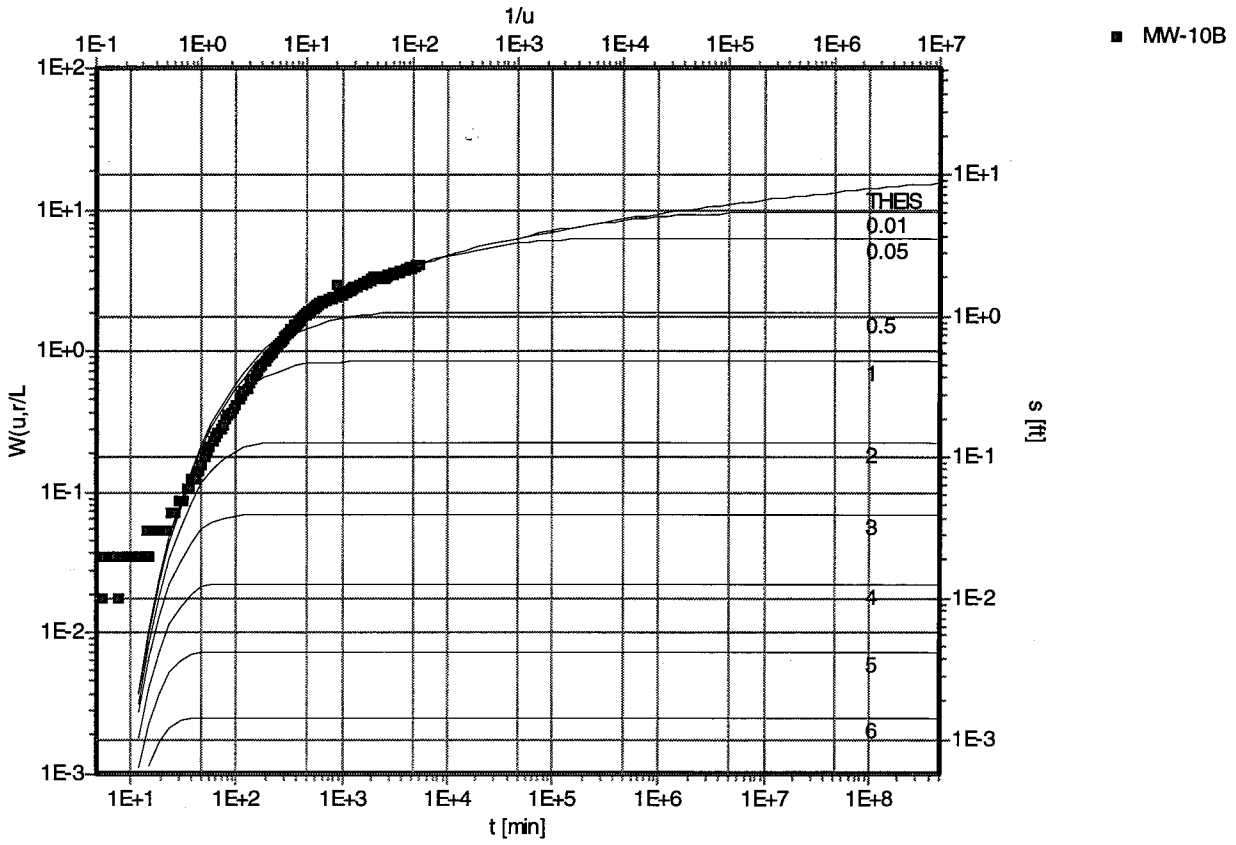
Date: 4/8/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Hantush-Jacob)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	6.21E+4 [ft²/d]	Conductivity:	1.04E+2 [ft/d]
	Storativity:	8.11E-4	c:	2.32E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

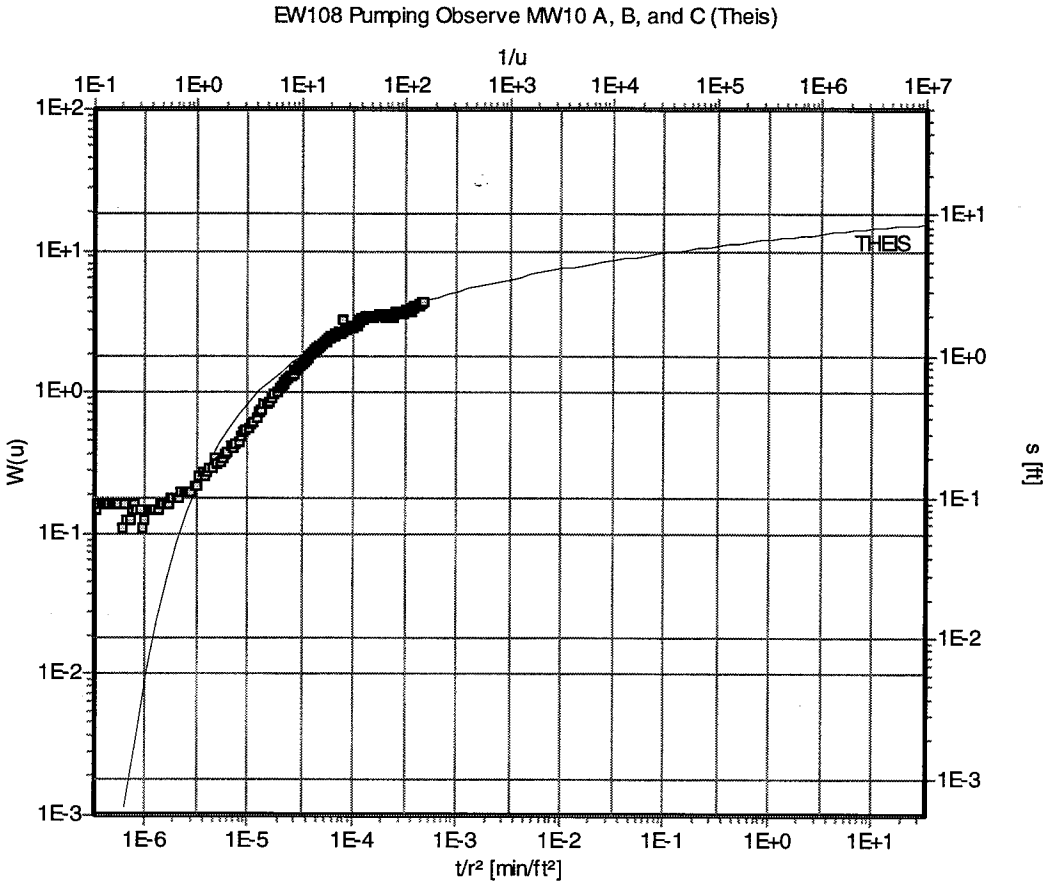
Evaluated by:

Date: 3/27/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis**

Analysis results:	Transmissivity:	6.37E+4 [ft²/d]	Conductivity:	1.06E+2 [ft/d]
	Storativity:	5.86E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

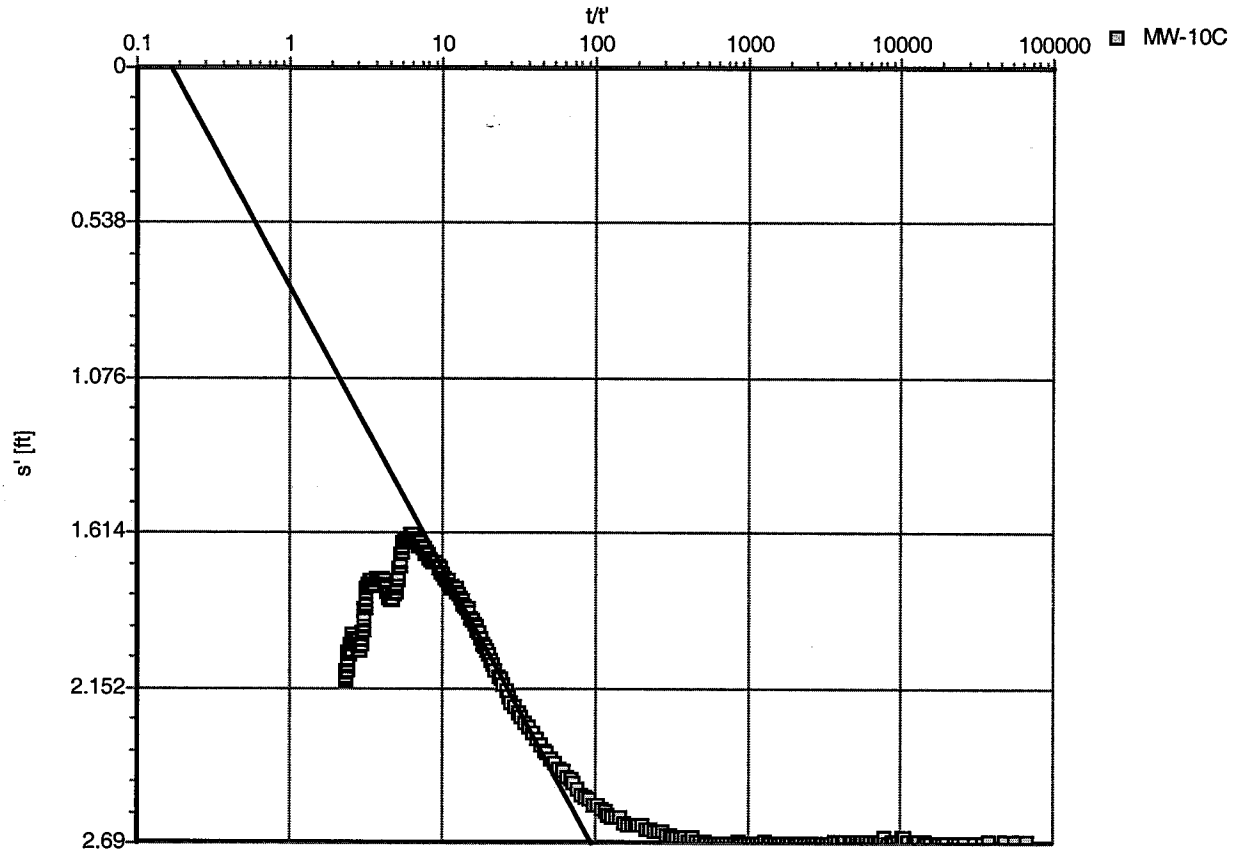
Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Theis Recovery)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Theis Recovery**

Analysis results:				
	Transmissivity:	8.28E+4 [ft²/d]	Conductivity:	1.38E+2 [ft/d]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

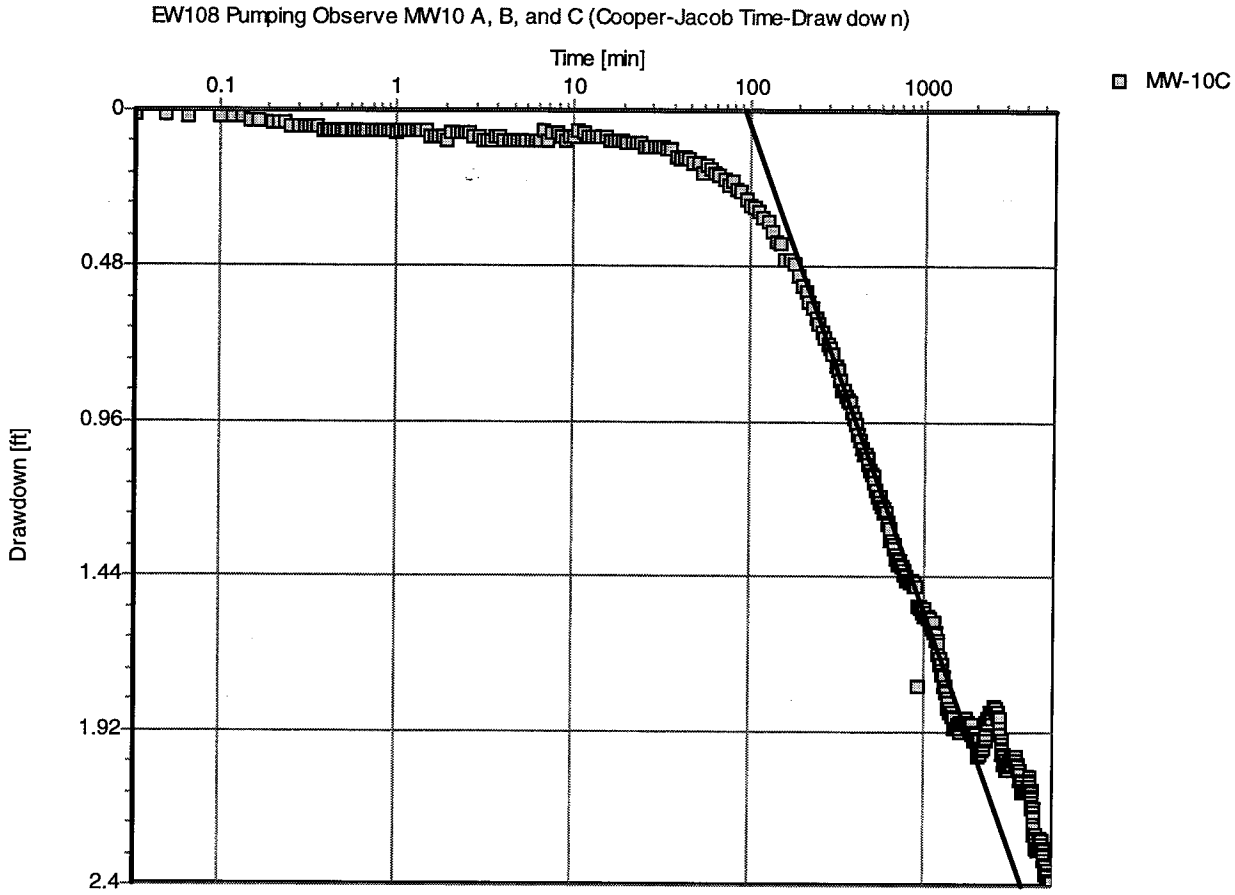
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	5.35E+4 [ft²/d]	Conductivity:	8.92E+1 [ft/d]
	Storativity:	7.78E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

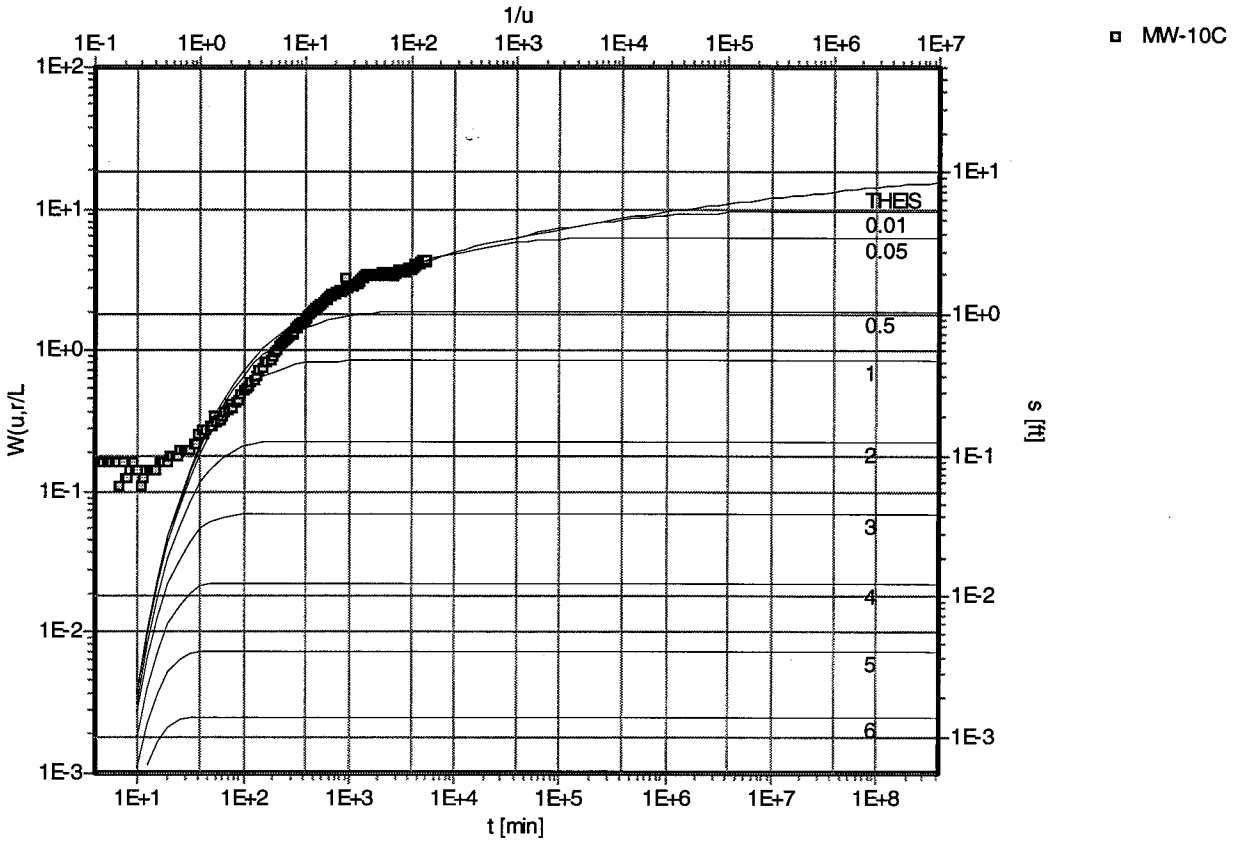
Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA

EW108 Pumping Observe MW10 A, B, and C (Hantush-Jacob)



Test name: **EW108 Pumping Observe MW10 A, B, and C**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	6.36E+4 [ft²/d]	Conductivity:	1.06E+2 [ft/d]
	Storativity:	6.92E-4	c:	2.26E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

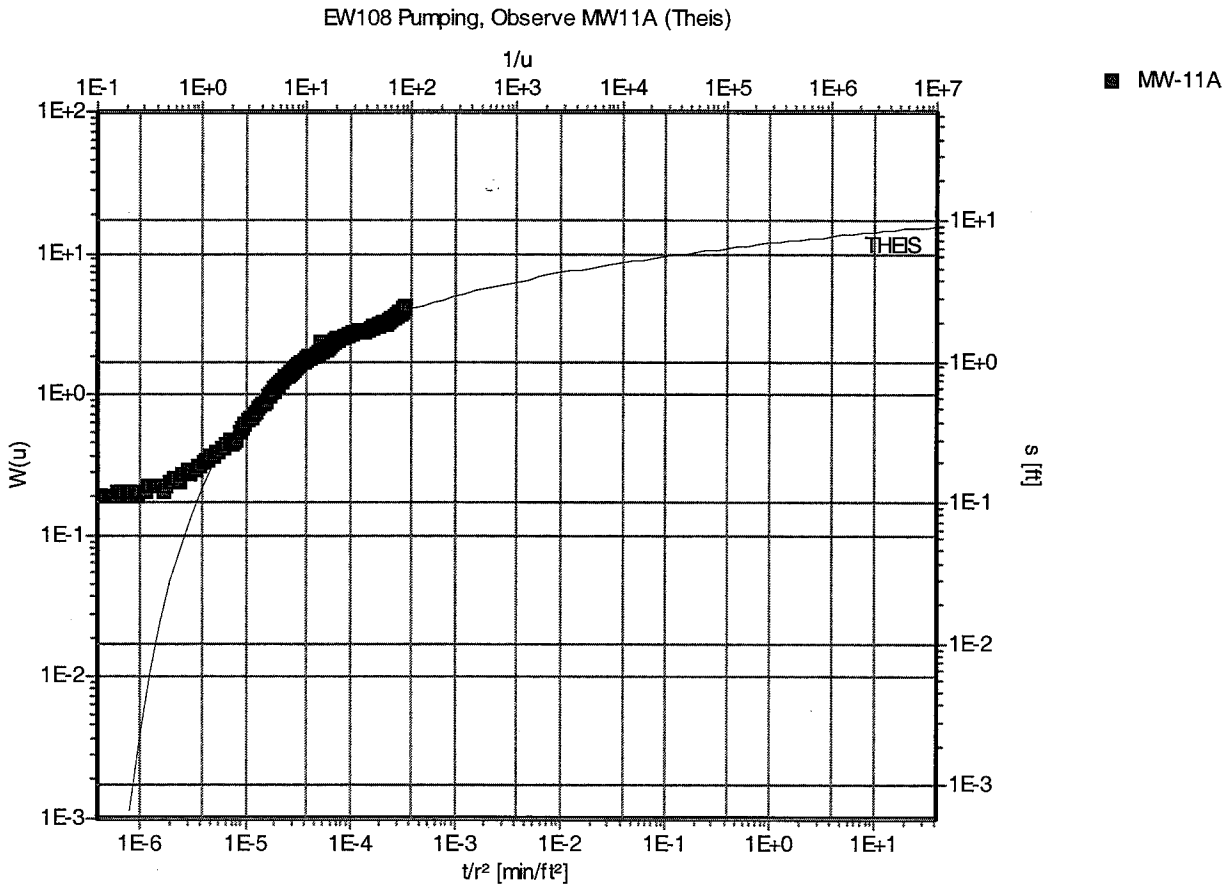
Evaluated by:

Date: 3/27/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping, Observe MW11A**

Analysis method: **Theis**

Analysis results:				
	Transmissivity:	6.07E+4 [ft²/d]	Conductivity:	1.01E+2 [ft/d]
	Storativity:	6.53E-4		

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

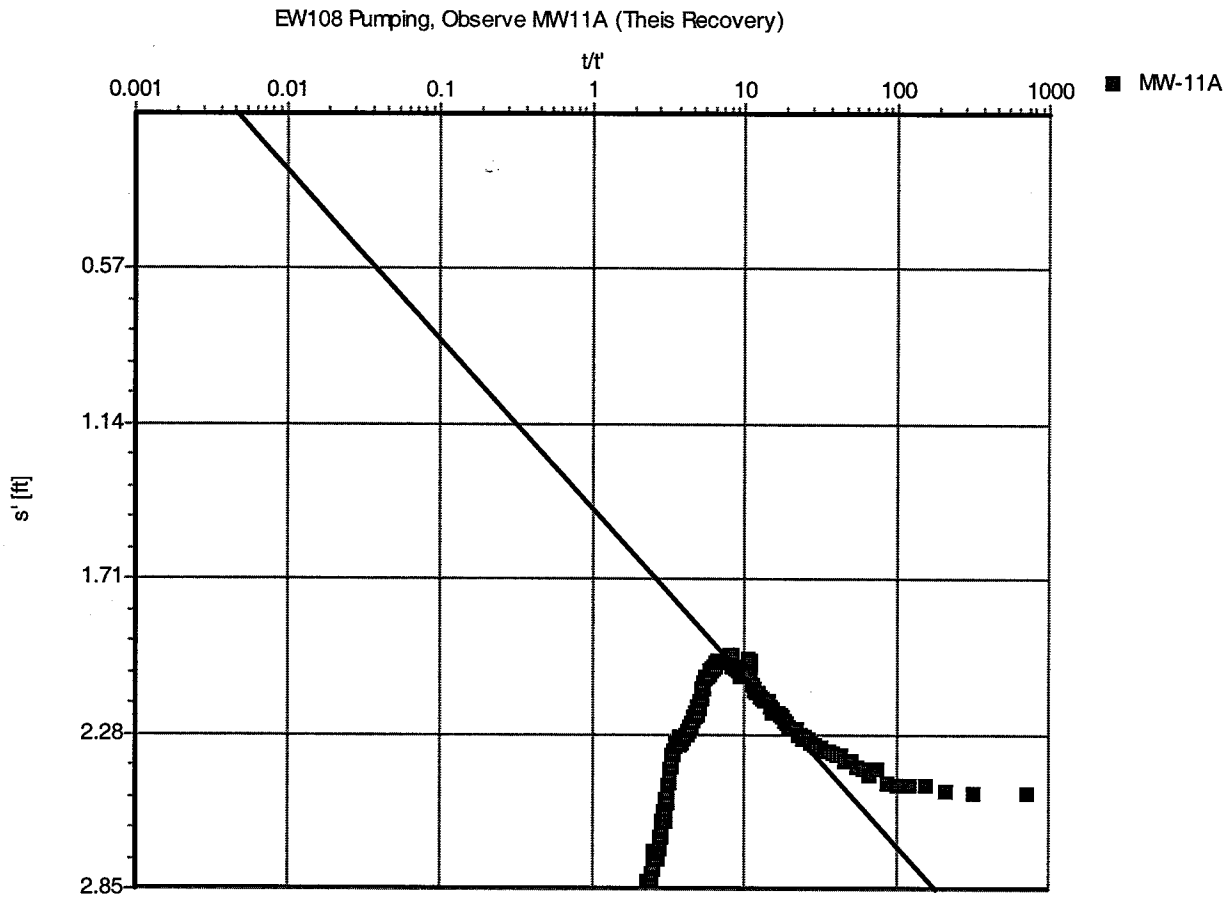
Evaluated by:

Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 Pumping, Observe MW11A**

Analysis method: **Theis Recovery**

Analysis results:				
	Transmissivity:	1.30E+5 [ft²/d]	Conductivity:	2.17E+2 [ft/d]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

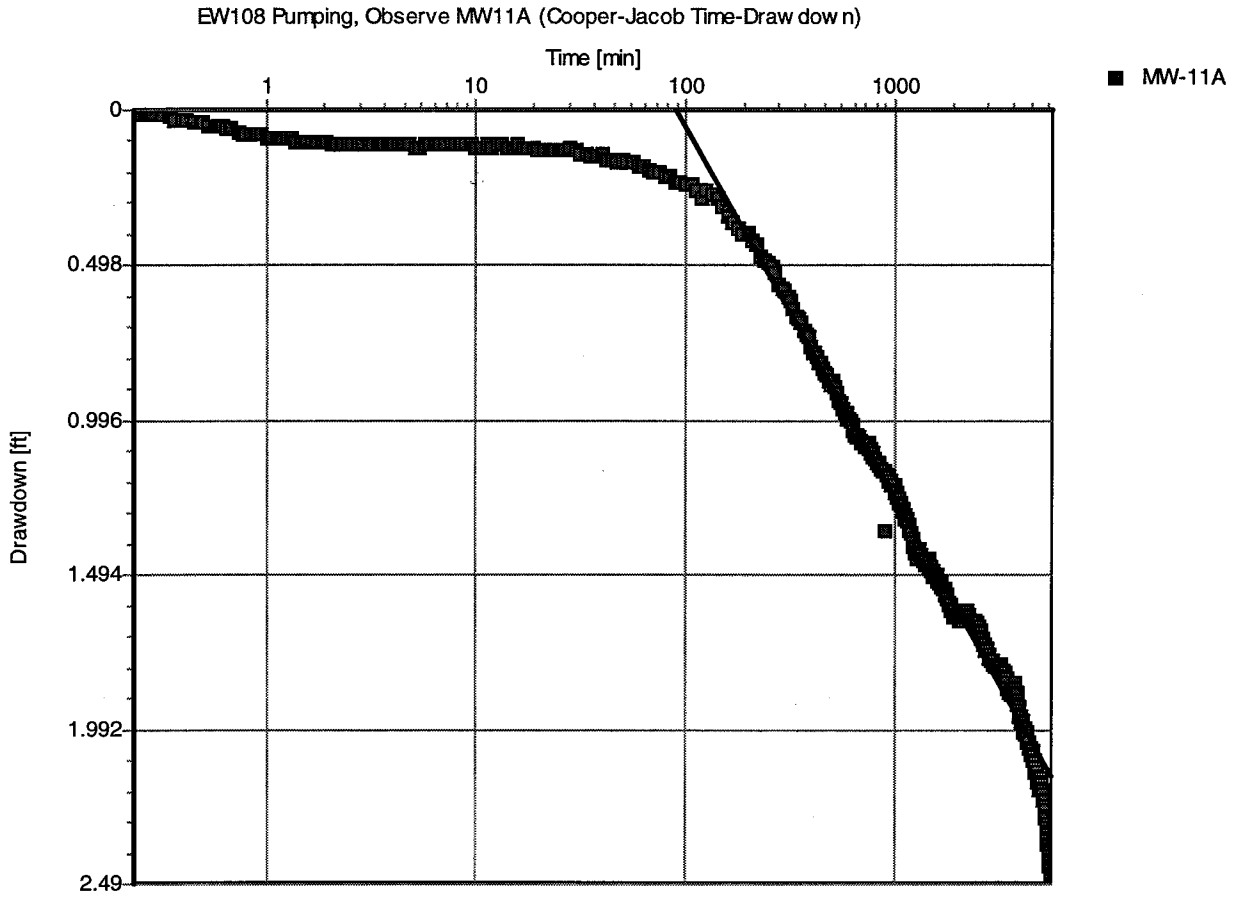
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 Pumping, Observe MW11A**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:				
	Transmissivity:	6.83E+4 [ft²/d]	Conductivity:	1.14E+2 [ft/d]
	Storativity:	6.34E-4		

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

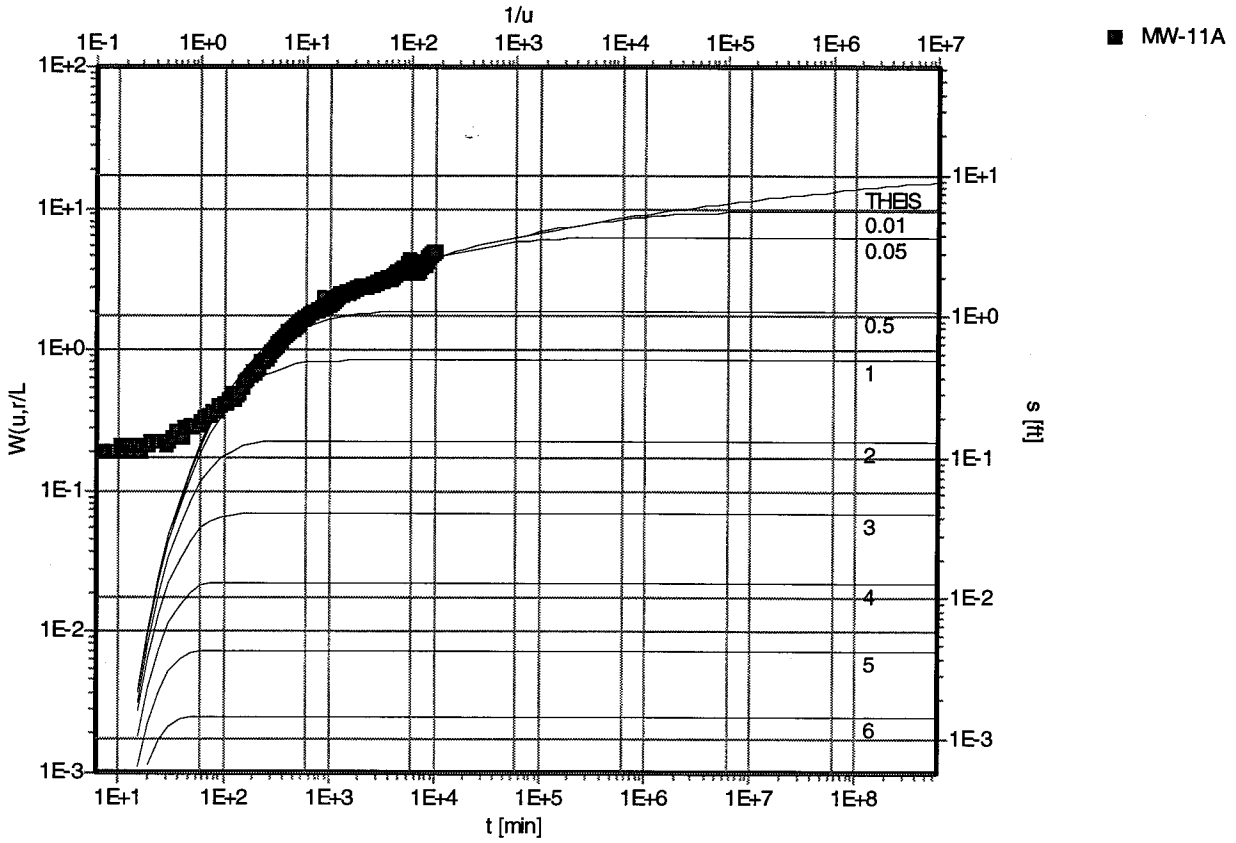
Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA

EW108 Pumping, Observe MW11A (Hantush-Jacob)



Test name: **EW108 Pumping, Observe MW11A**

Analysis method: **Hantush-Jacob**

Analysis results:				
	Transmissivity:	6.12E+4 [ft²/d]	Conductivity:	1.02E+2 [ft/d]
	Storativity:	6.82E-4	c:	3.54E+9 [min]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

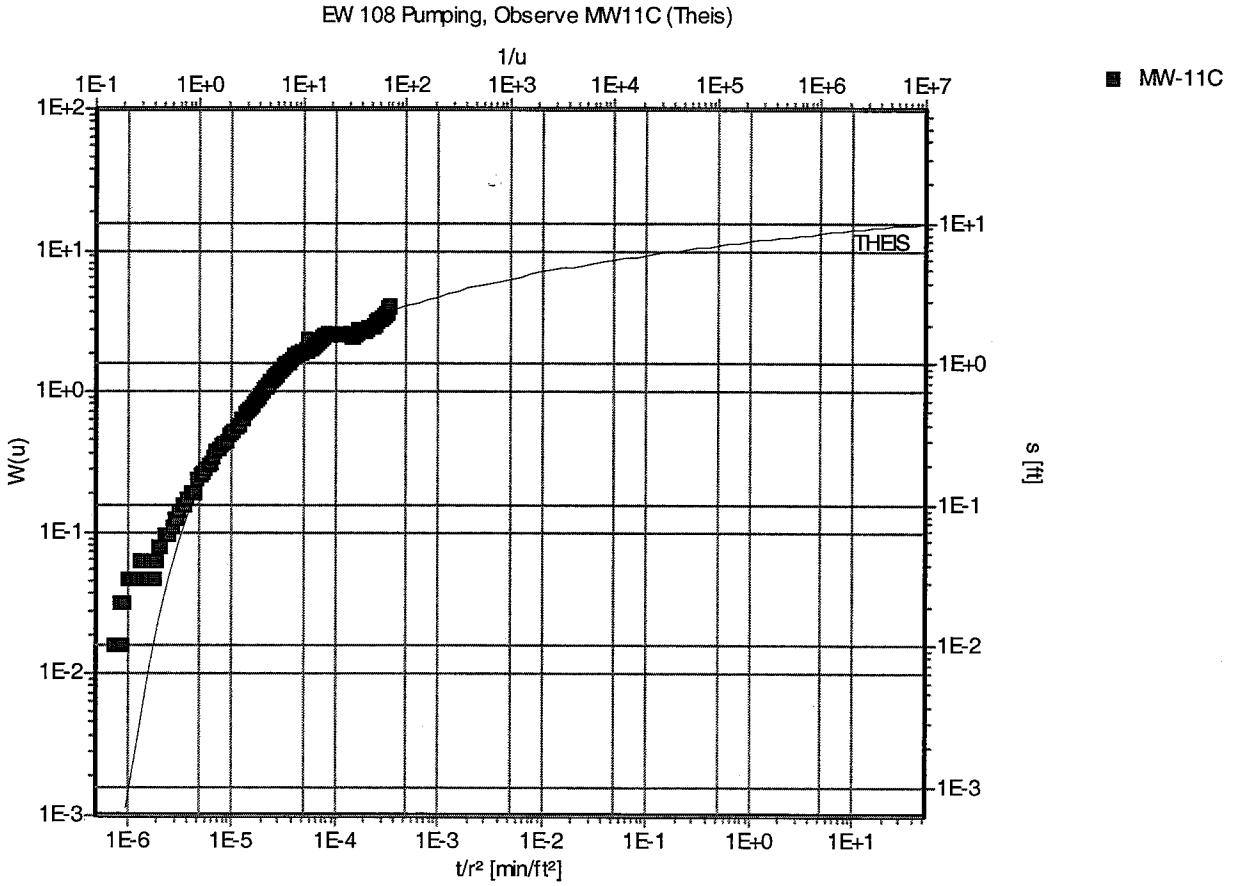
Evaluated by:

Date: 3/27/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW 108 Pumping, Observe MW11C**

Analysis method: **Theis**

Analysis results:	Transmissivity:	5.56E+4 [ft²/d]	Conductivity:	9.27E+1 [ft/d]
	Storativity:	7.60E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

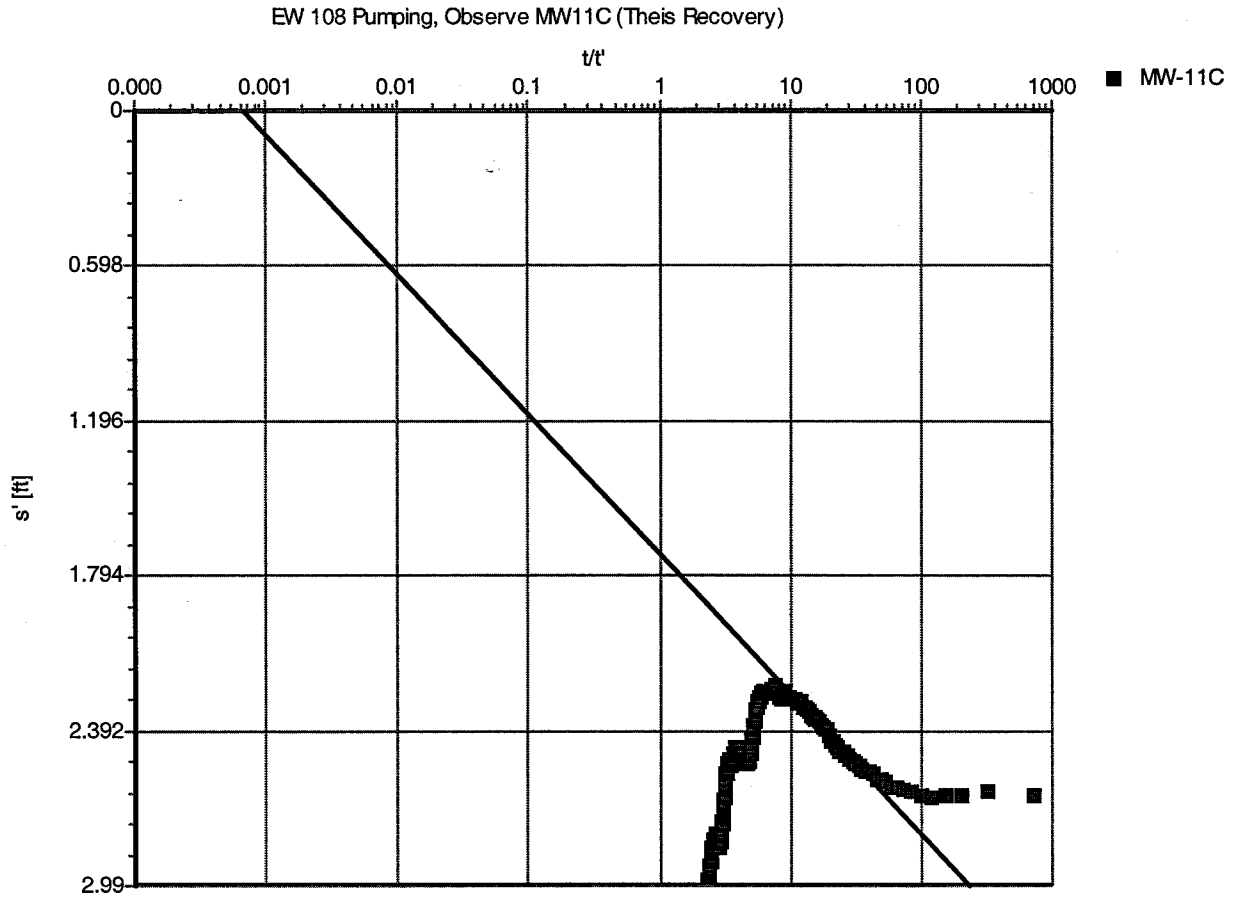
Evaluated by:

Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW 108 Pumping, Observe MW11C**

Analysis method: **Theis Recovery**

Analysis results:				
	Transmissivity:	1.50E+5 [ft²/d]	Conductivity:	2.50E+2 [ft/d]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

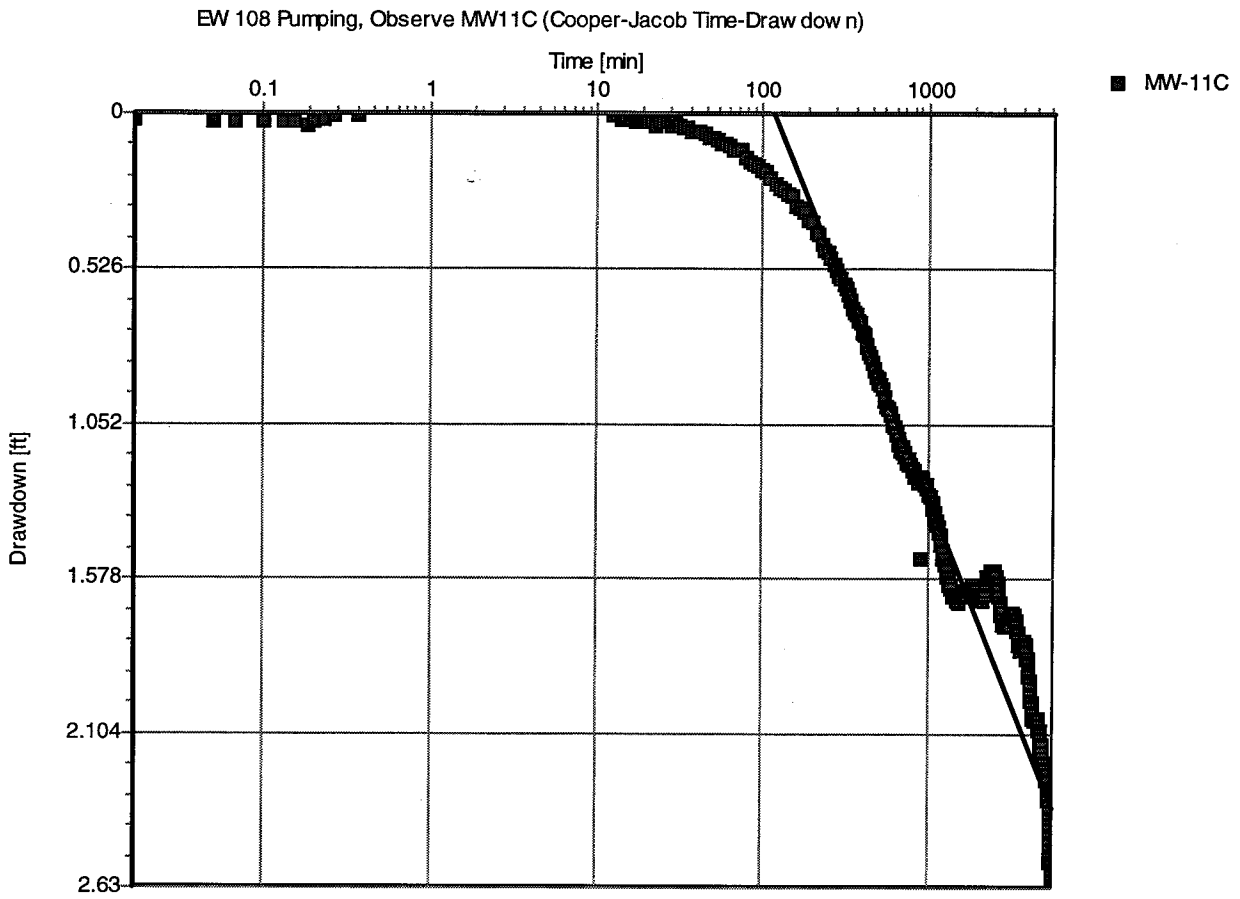
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW 108 Pumping, Observe MW11C**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	5.79E+4 [ft²/d]	Conductivity:	9.65E+1 [ft/d]
	Storativity:	7.11E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

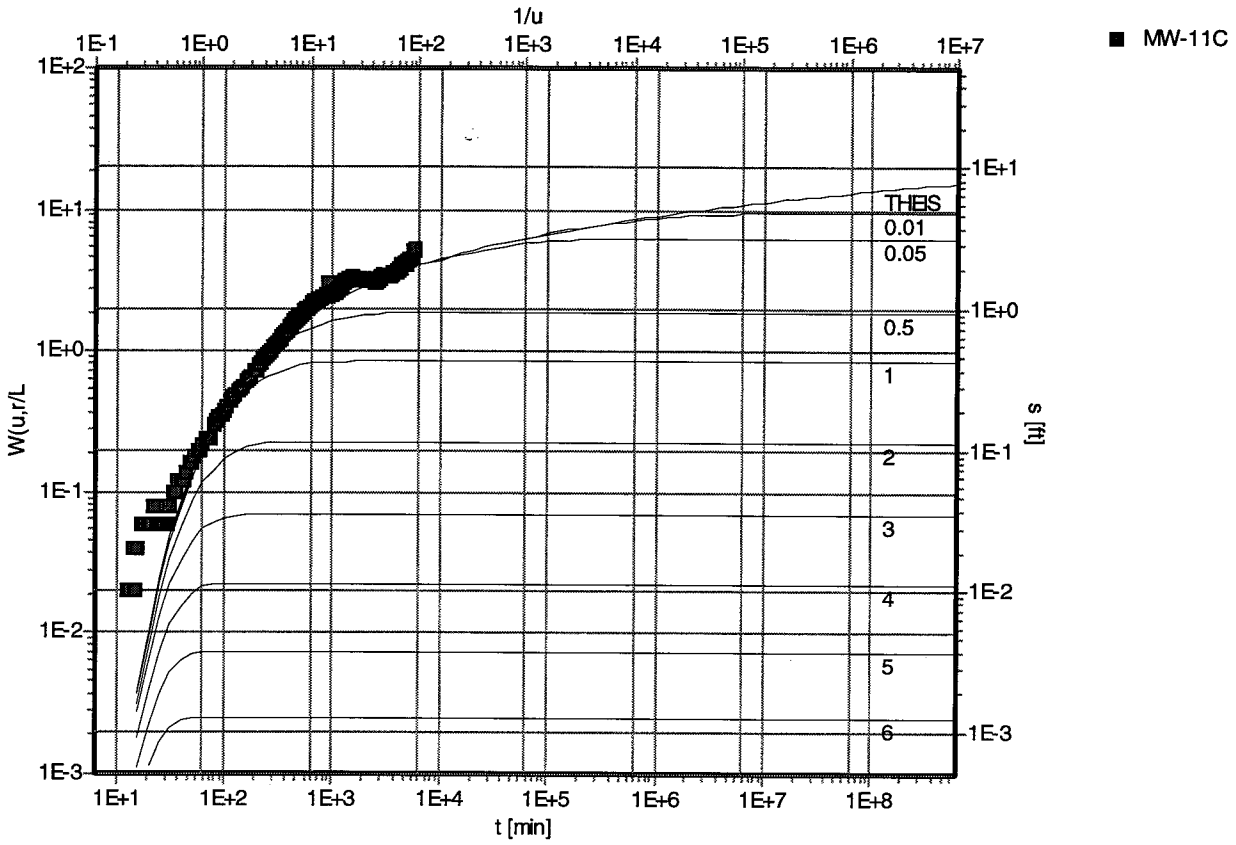
Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA

EW 108 Pumping, Observe MW11C (Hantush-Jacob)



Test name: **EW 108 Pumping, Observe MW11C**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	7.03E+4 [ft²/d]	Conductivity:	1.17E+2 [ft/d]
	Storativity:	8.20E-4	c:	3.08E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

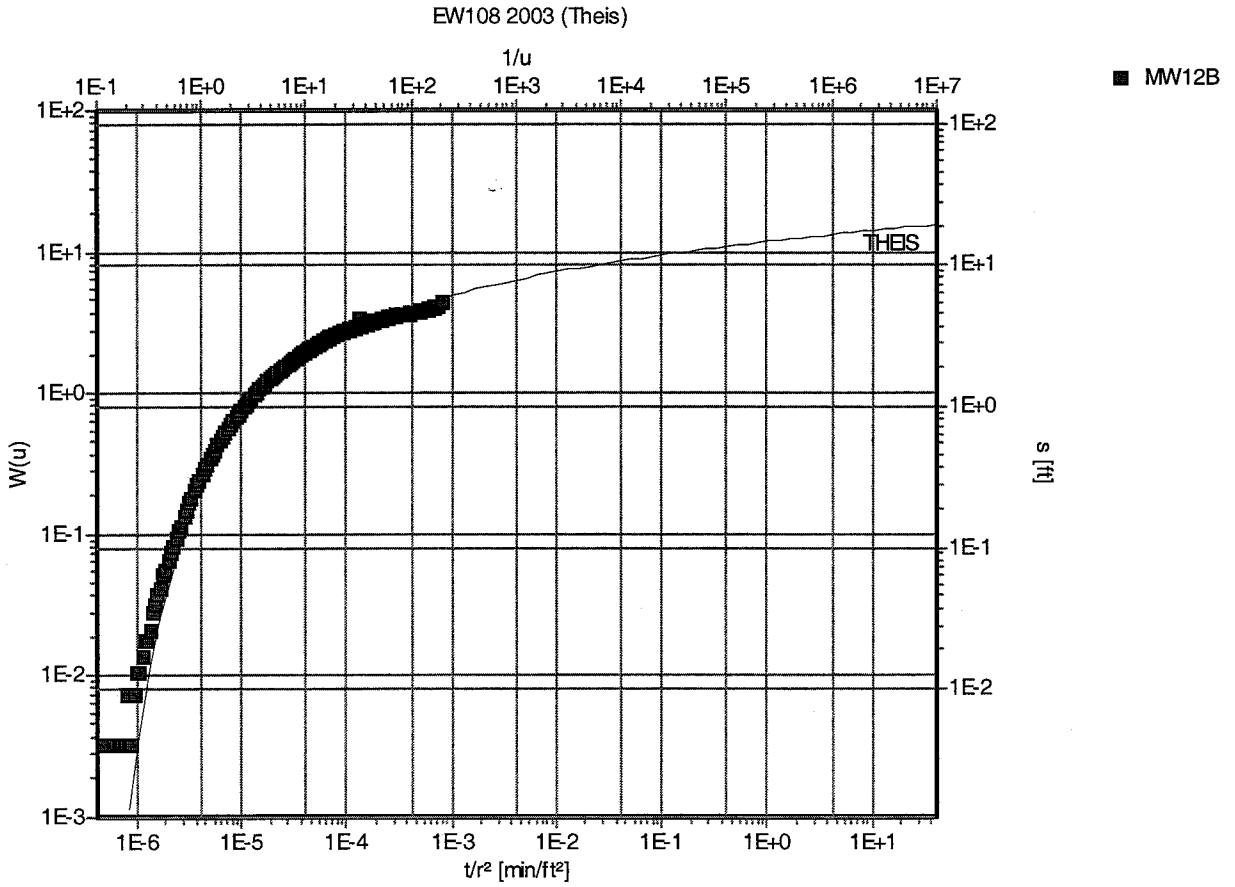
Evaluated by:

Date: 3/27/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis**

Analysis results:	Transmissivity:	2.83E+4 [ft²/d]	Conductivity:	4.71E+1 [ft/d]
	Storativity:	3.28E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

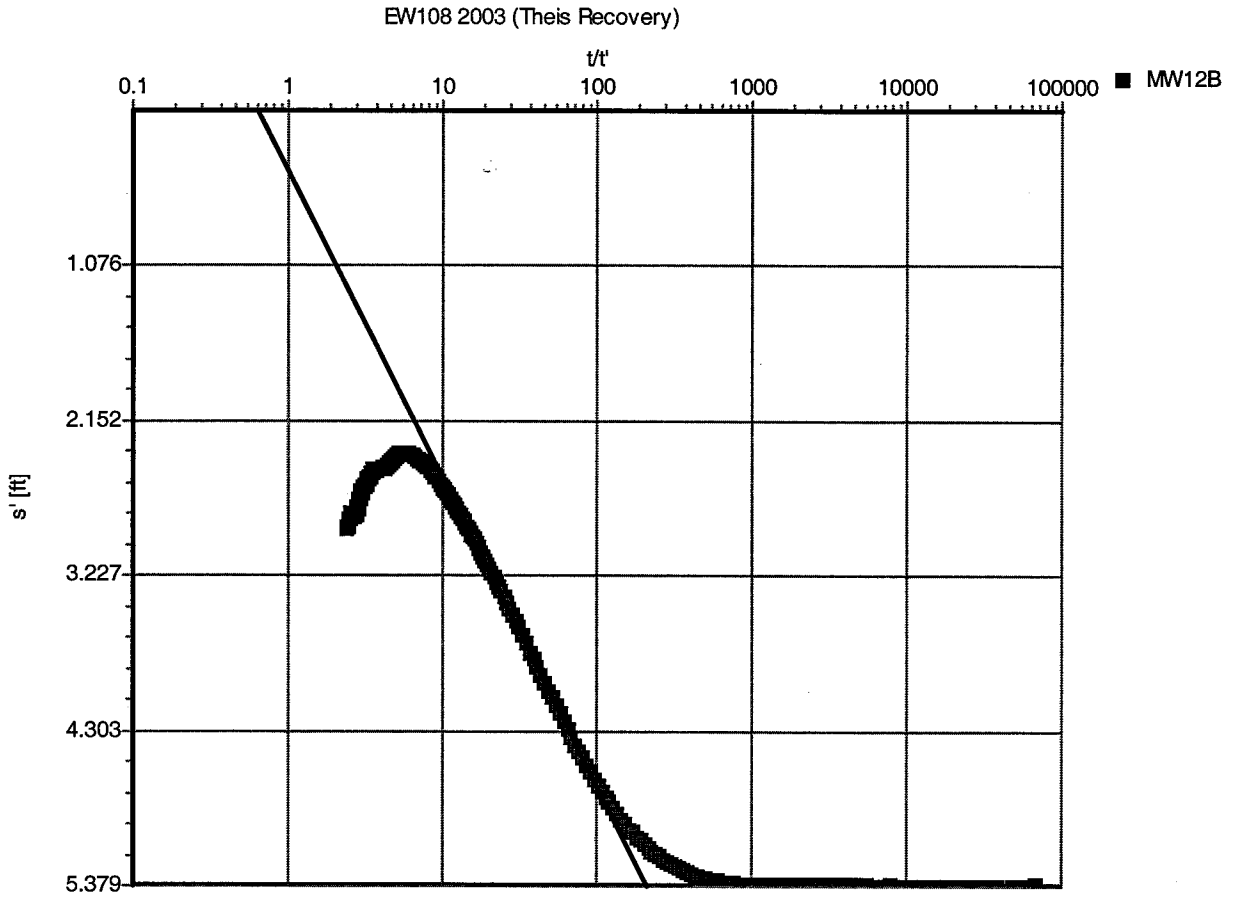
Evaluated by:

Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis Recovery**

Analysis results:	Transmissivity:	3.81E+4 [ft²/d]	Conductivity:	6.35E+1 [ft/d]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

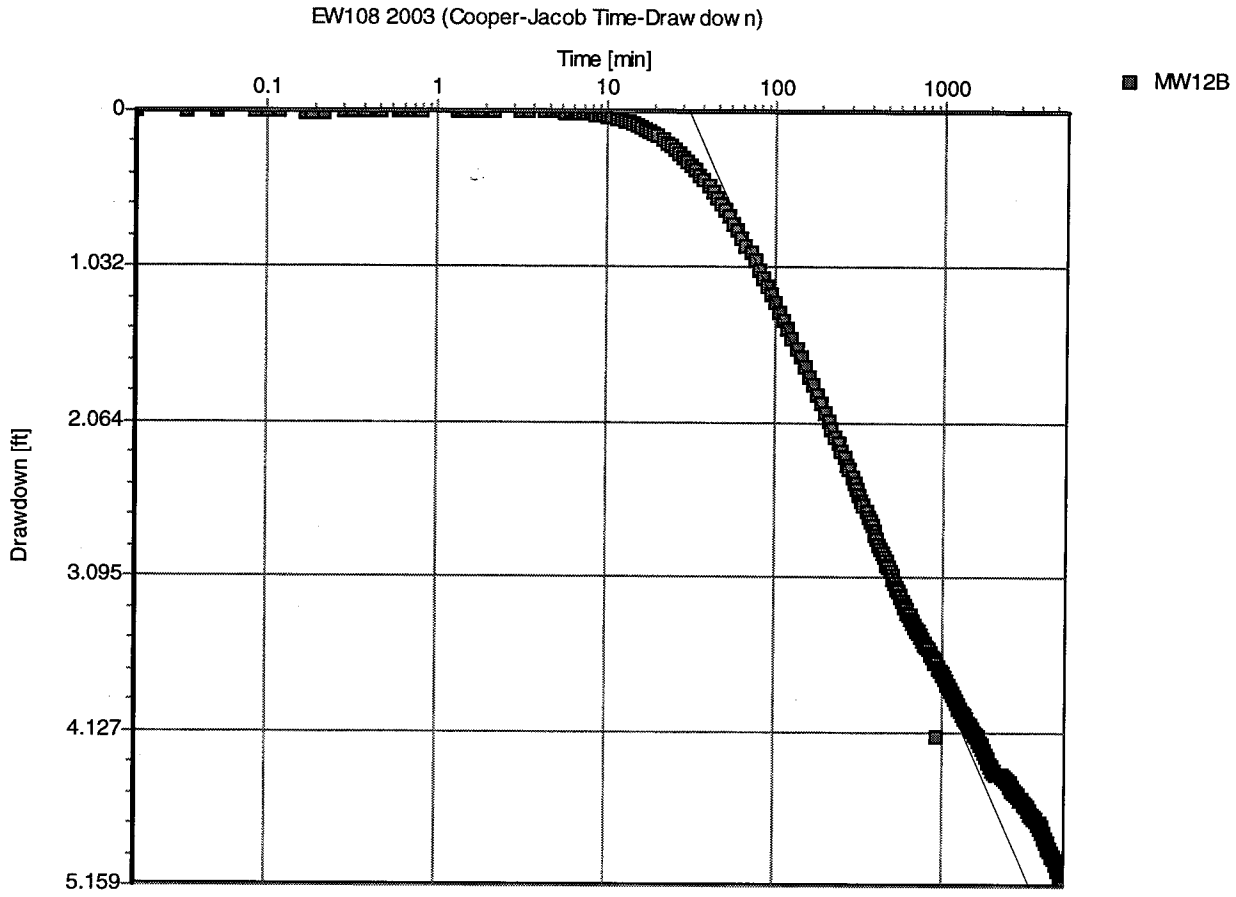
Evaluated by:

Date: 3/25/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	3.21E+4 [ft²/d]	Conductivity:	5.34E+1 [ft/d]
	Storativity:	2.70E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

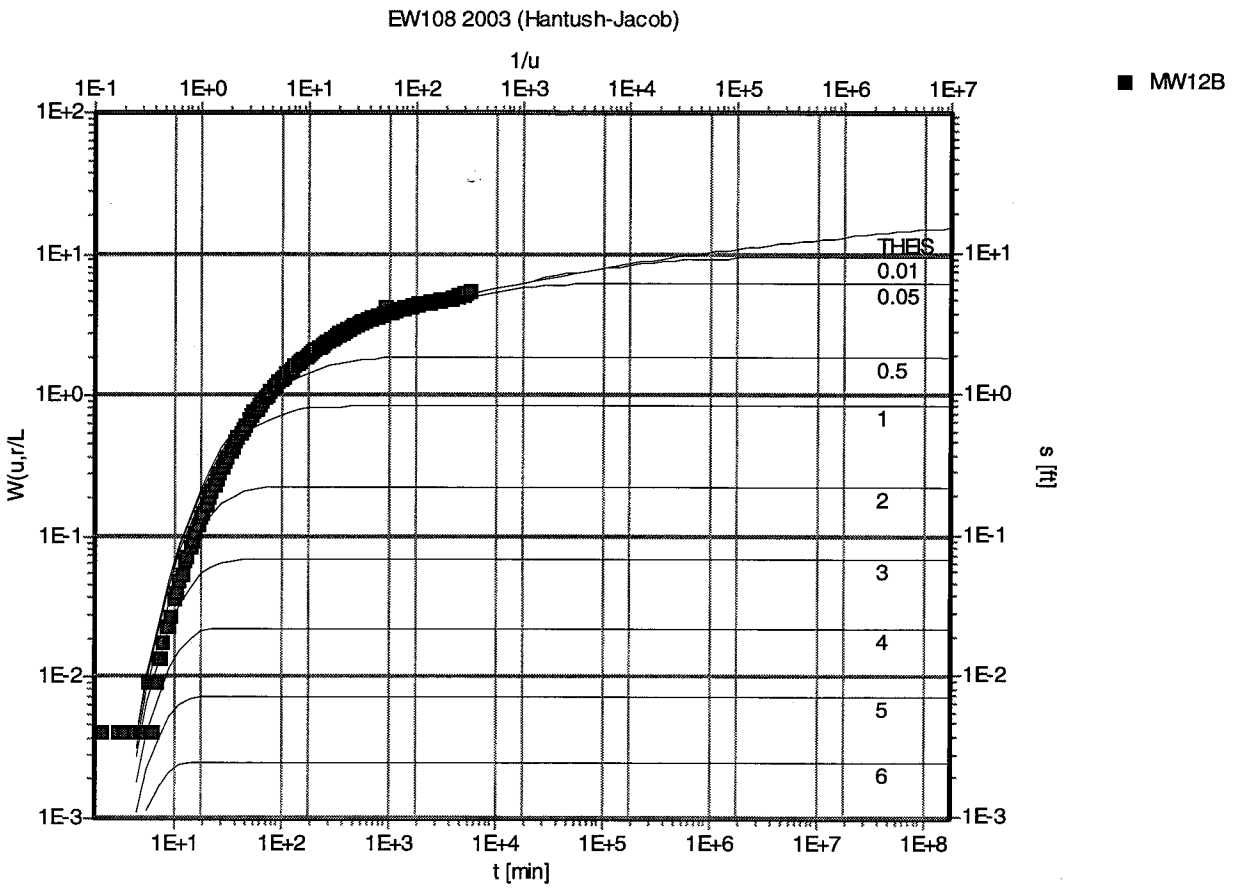
Evaluated by:

Date: 4/7/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	3.63E+4 [ft²/d]	Conductivity:	6.05E+1 [ft/d]
	Storativity:	3.15E-4	c:	2.27E+9 [min]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

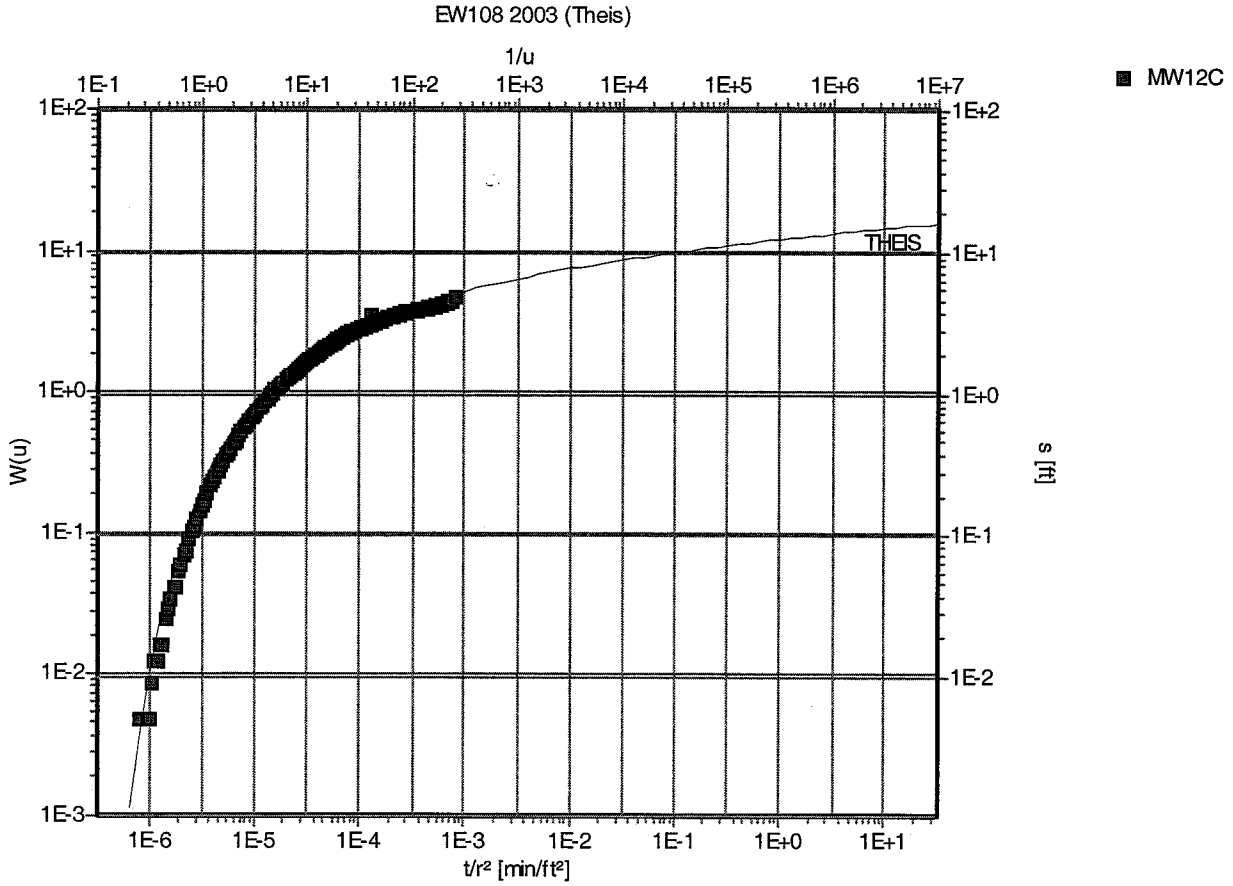
Evaluated by:

Date: 3/25/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis**

Analysis results:	Transmissivity:	3.36E+4 [ft²/d]	Conductivity:	5.61E+1 [ft/d]
	Storativity:	3.02E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

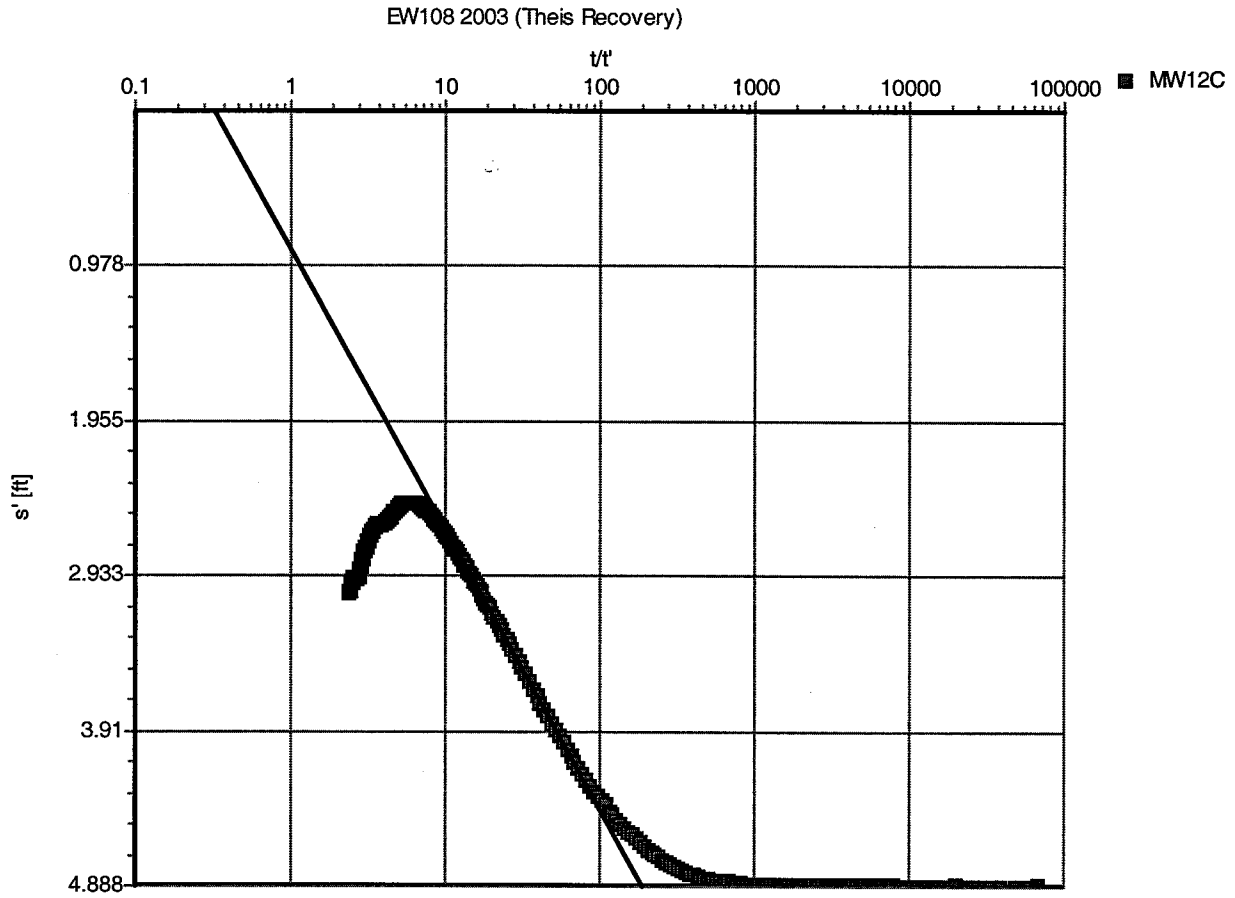
Evaluated by:

Date: 3/26/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis Recovery**

Analysis results:	Transmissivity:	4.58E+4 [ft²/d]	Conductivity:	7.63E+1 [ft/d]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

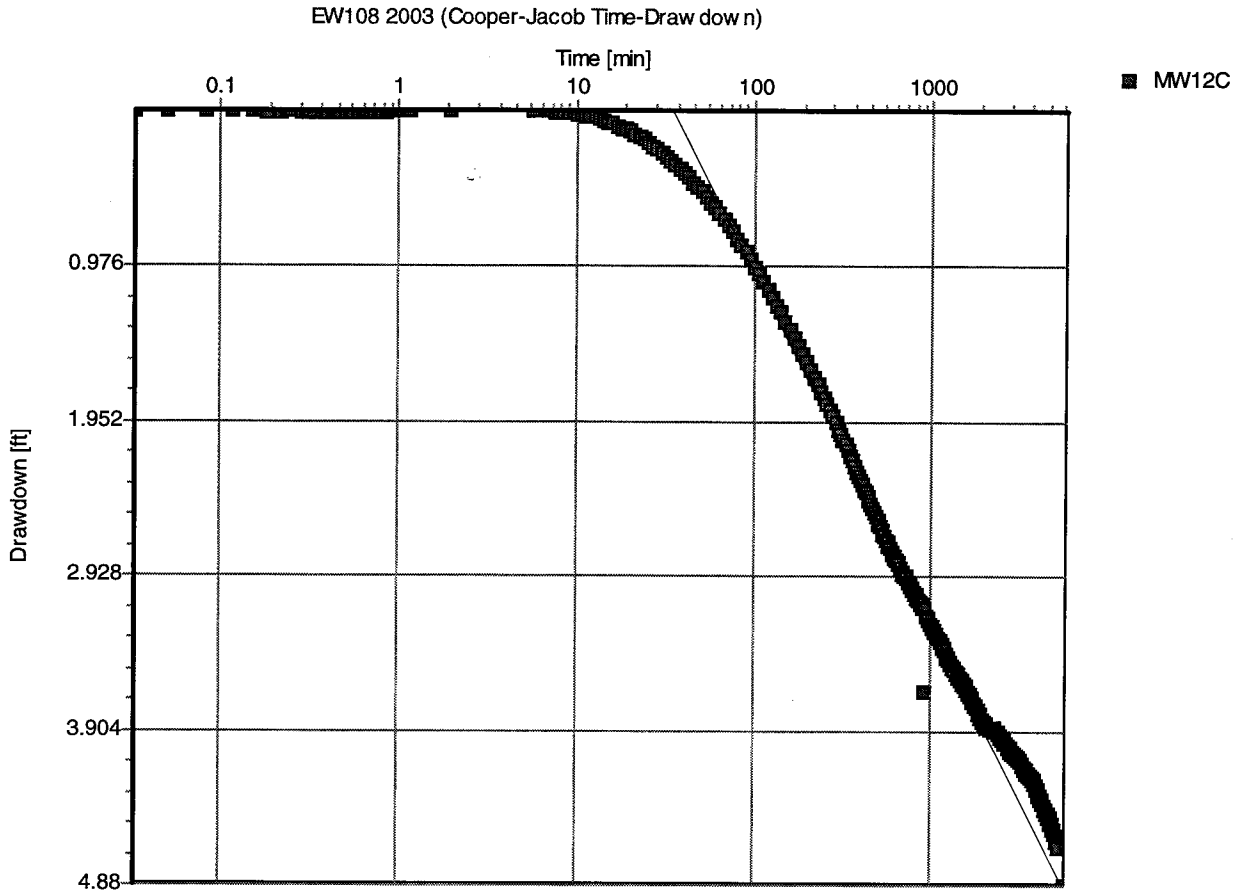
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	3.67E+4 [ft²/d]	Conductivity:	6.12E+1 [ft/d]
	Storativity:	3.42E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

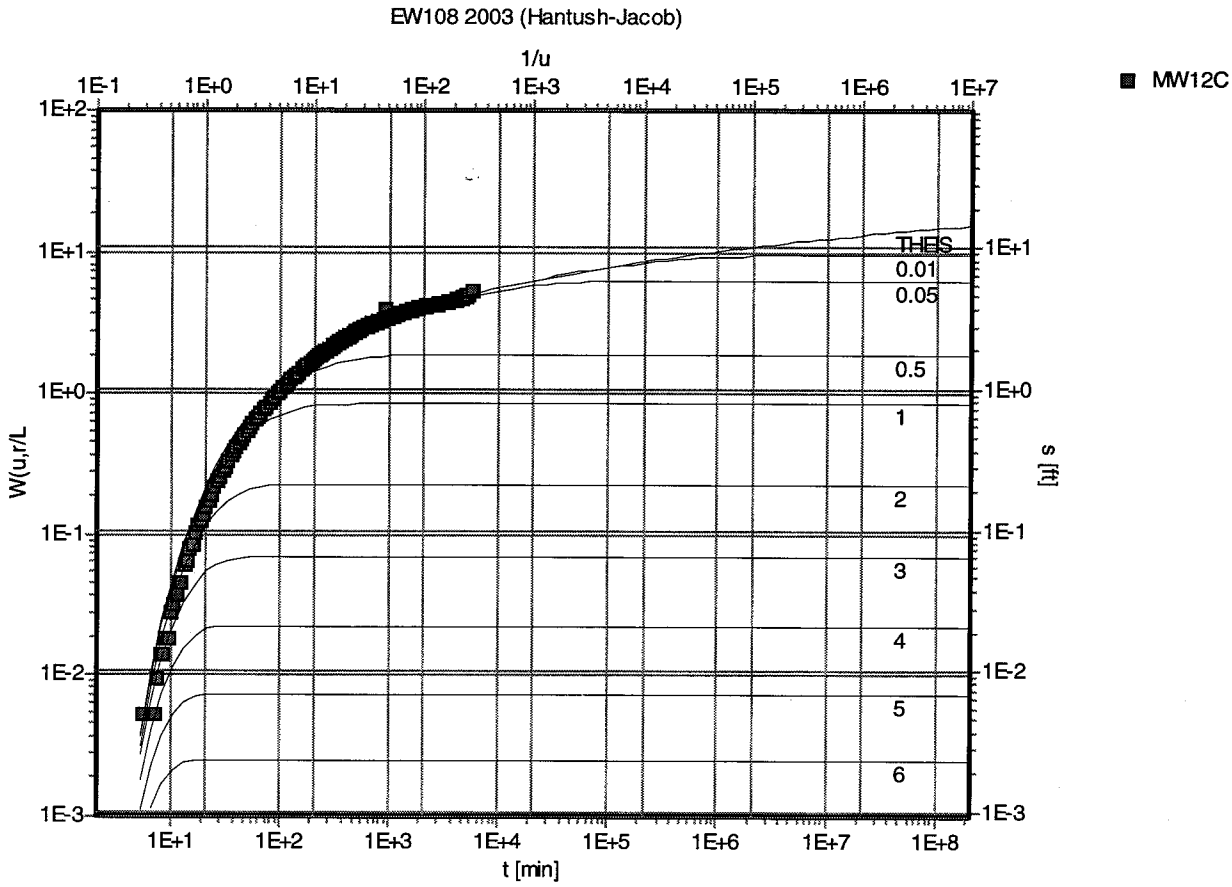
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	3.78E+4 [ft²/d]	Conductivity:	6.29E+1 [ft/d]
	Storativity:	3.83E-4	c:	2.18E+9 [min]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

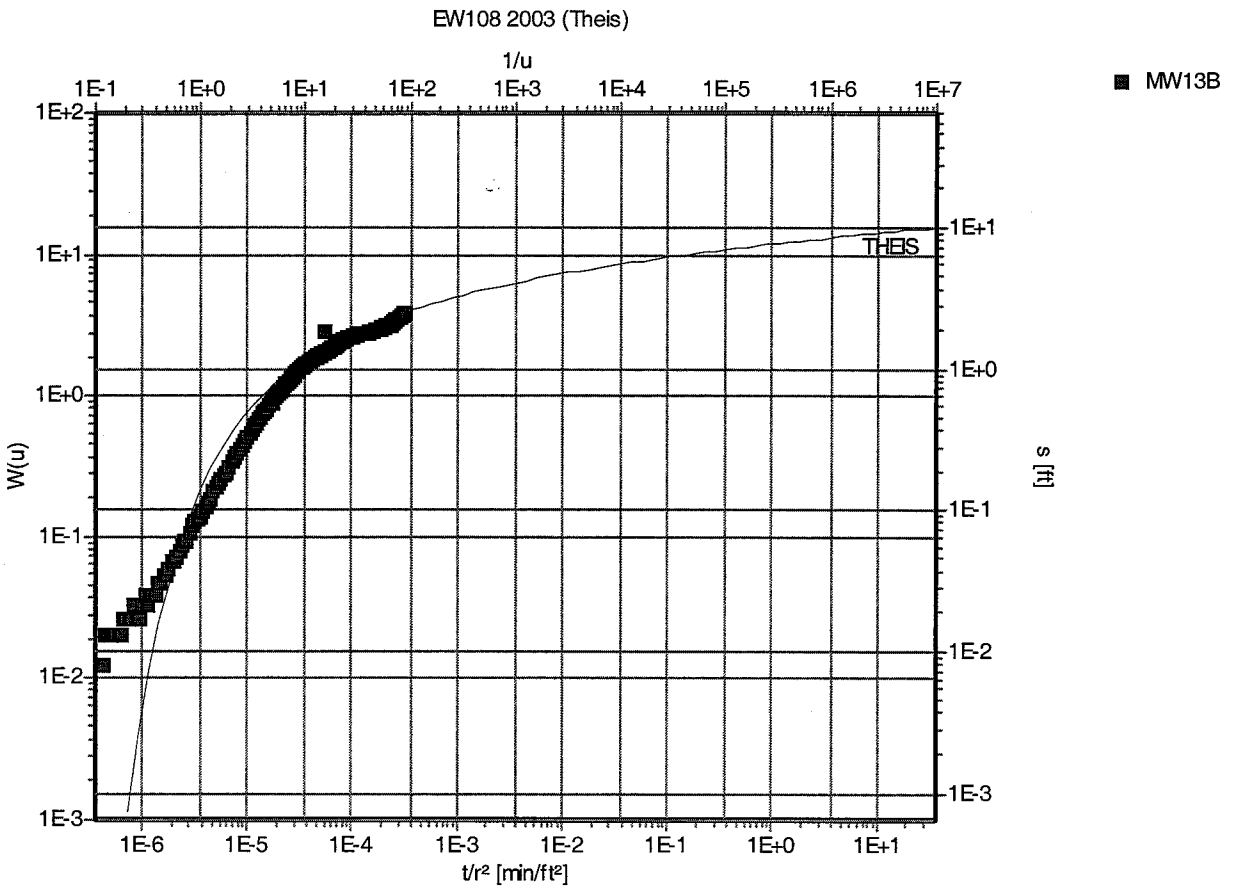
Evaluated by:

Date: 3/27/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis**

Analysis results:	Transmissivity:	5.46E+4 [ft²/d]	Conductivity:	9.10E+1 [ft/d]
	Storativity:	5.51E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

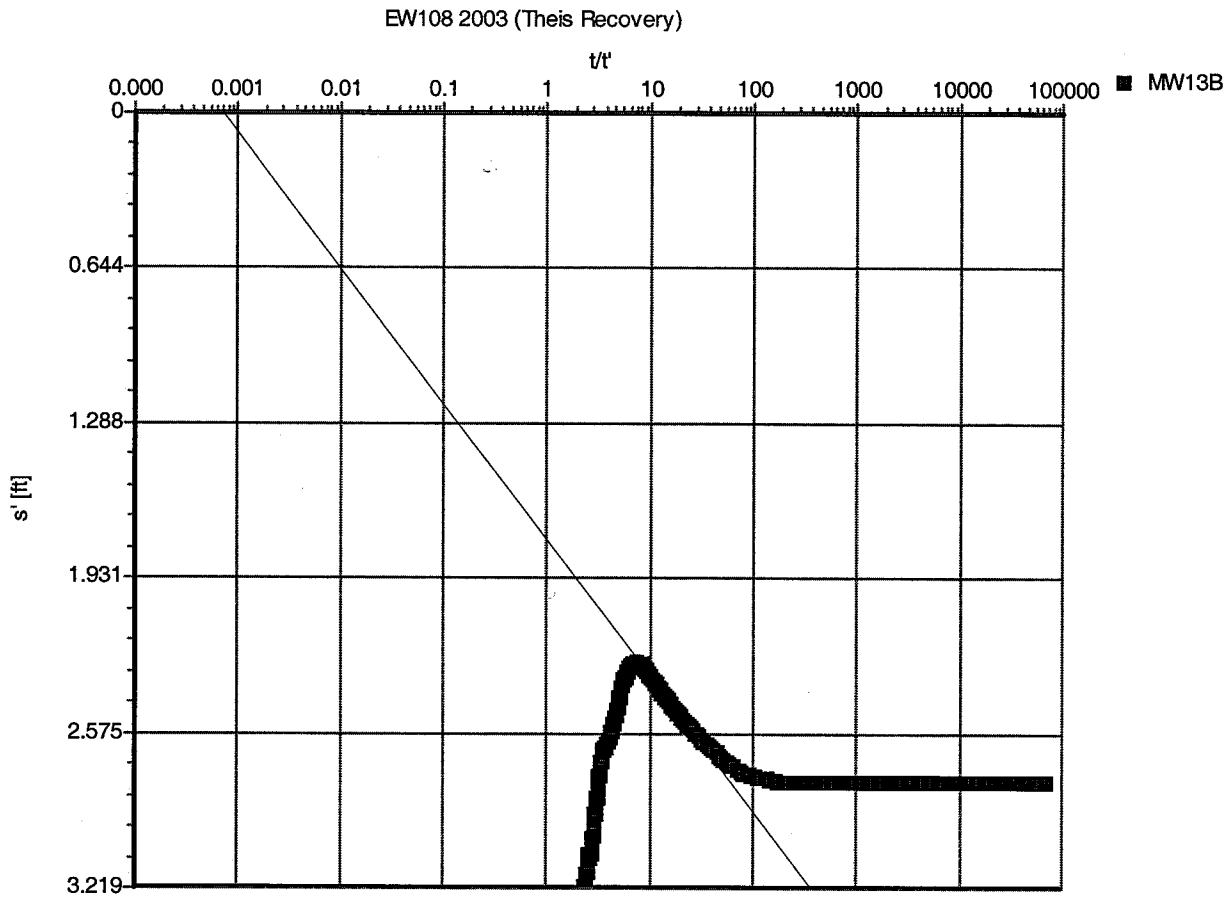
Evaluated by:

Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis Recovery**

Analysis results:				
	Transmissivity:	1.44E+5 [ft²/d]	Conductivity:	2.40E+2 [ft/d]

Test parameters:				
	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

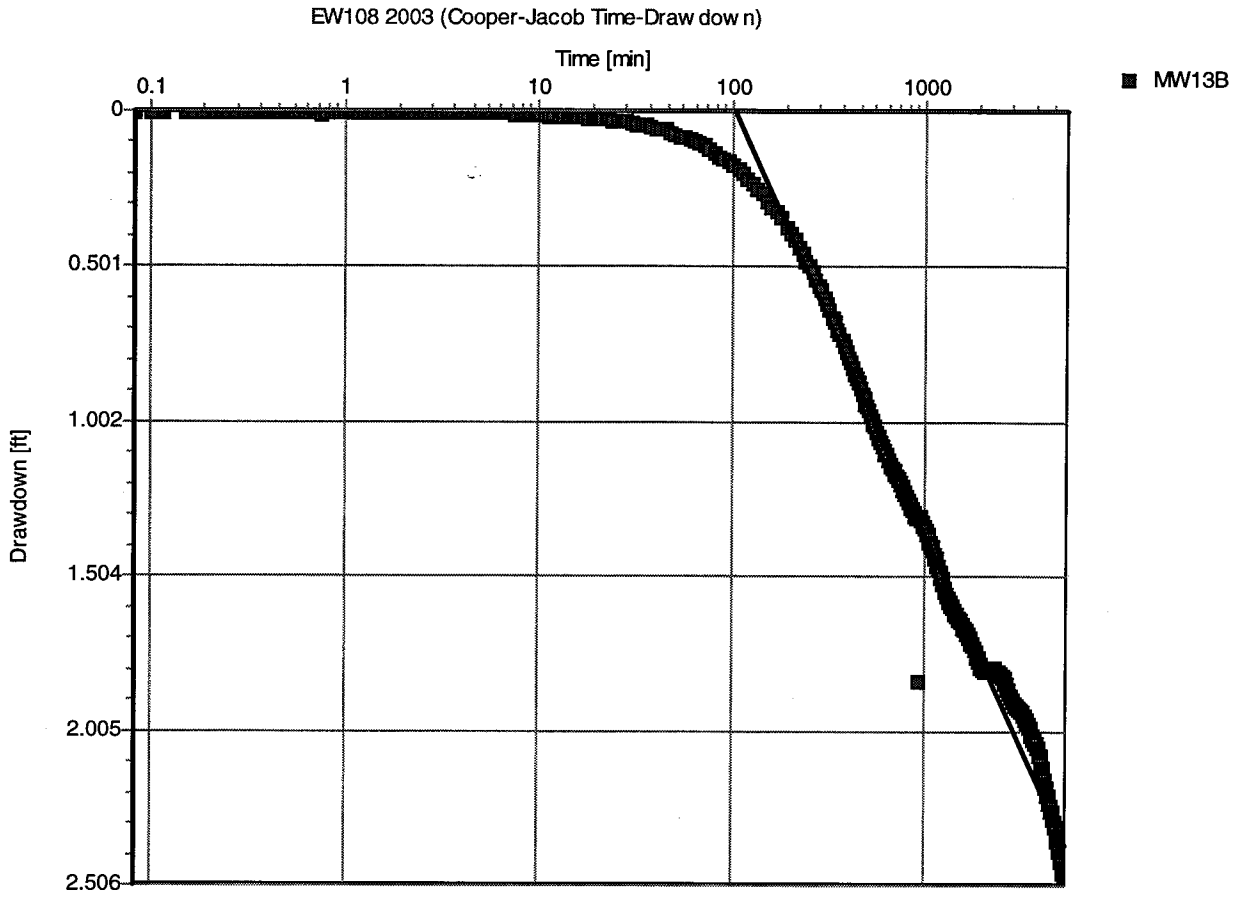
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	5.83E+4 [ft²/d]	Conductivity:	9.72E+1 [ft/d]
	Storativity:	6.51E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

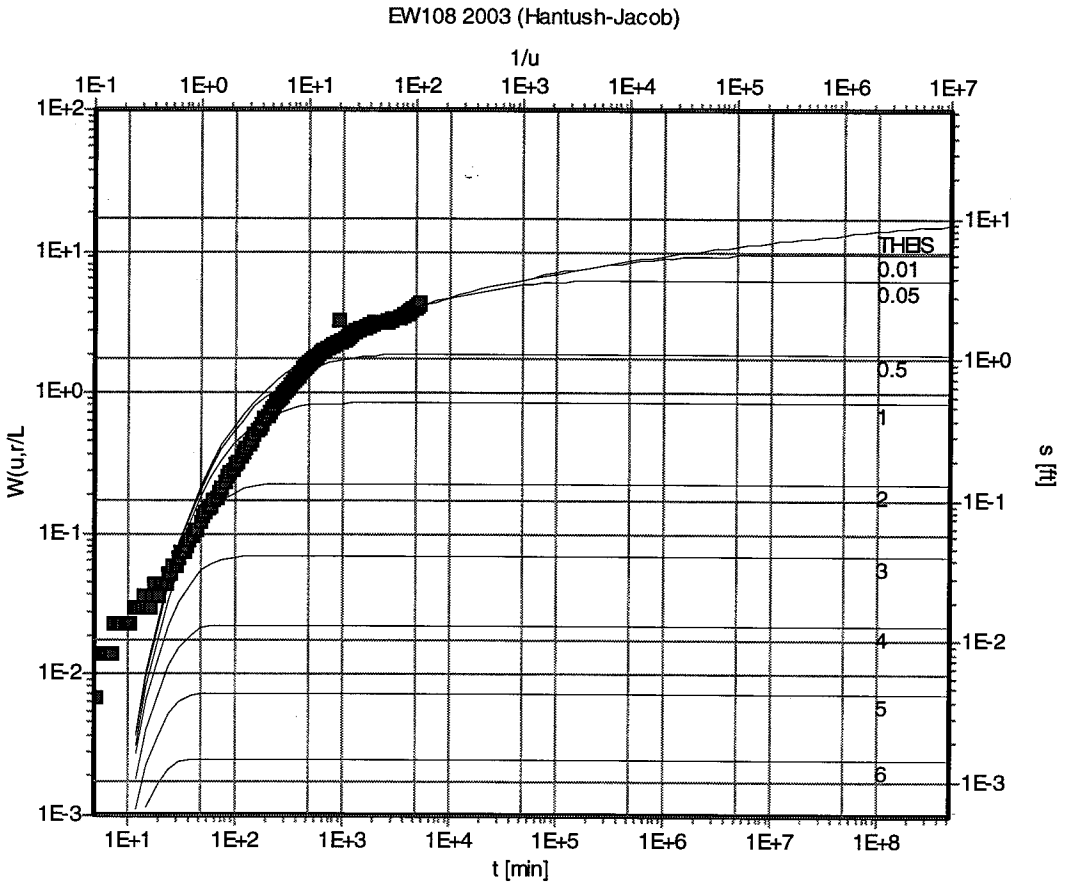
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	6.13E+4 [ft²/d]	Conductivity:	1.02E+2 [ft/d]
	Storativity:	5.67E-4	c:	3.38E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

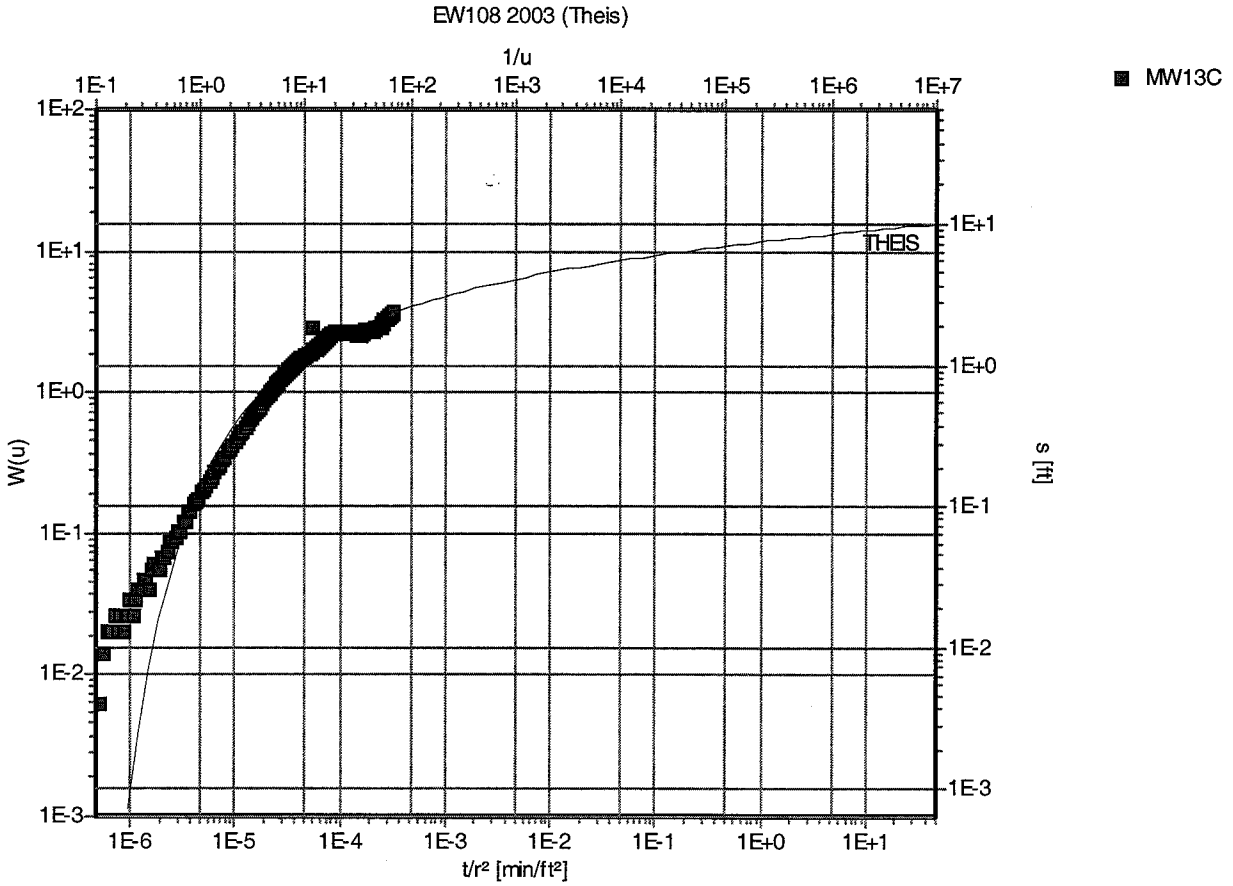
Evaluated by:

Date: 4/4/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis**

Analysis results:	Transmissivity:	5.48E+4 [ft²/d]	Conductivity:	9.14E+1 [ft/d]
	Storativity:	7.15E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

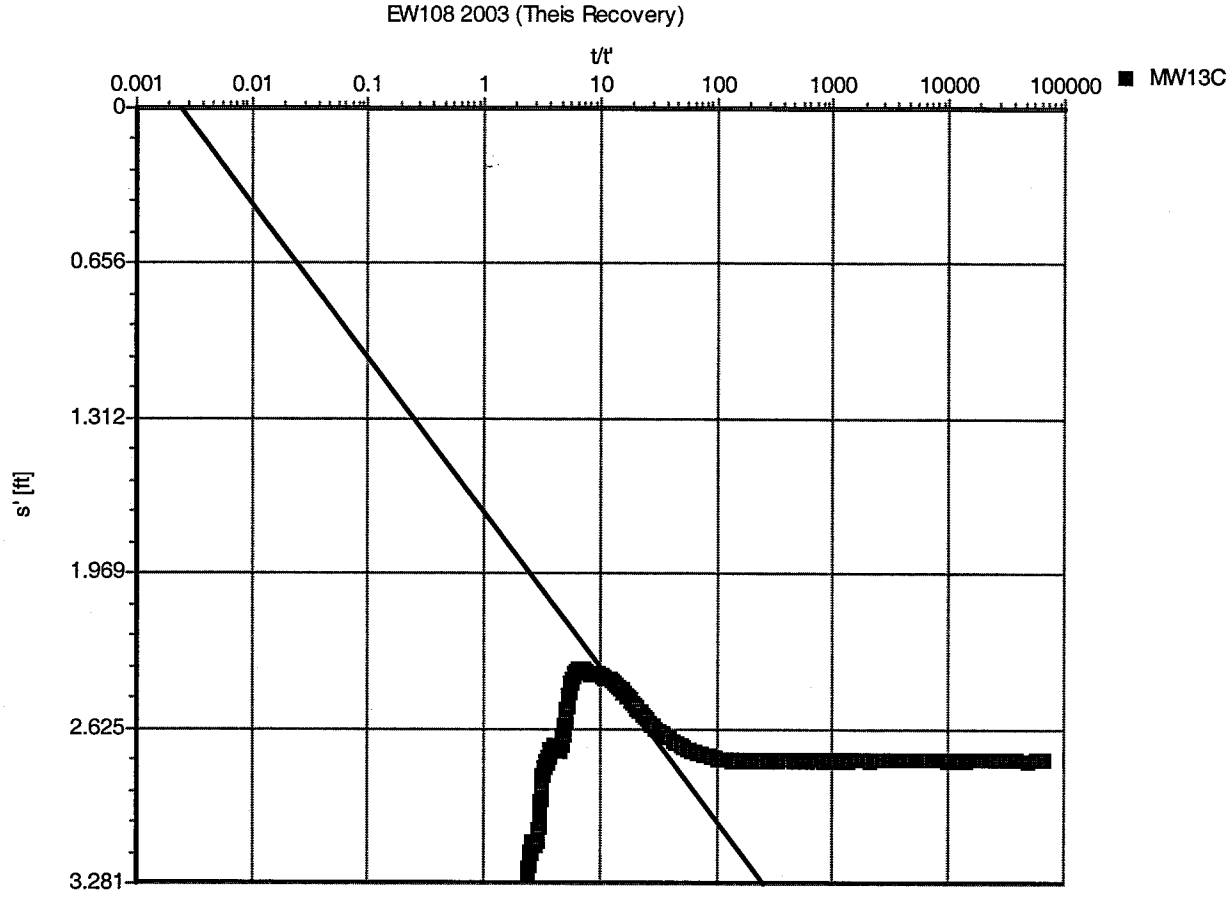
Evaluated by:

Date: 3/27/03

URS Corporation
2870 Gateway Oaks Drive, Suite 300
Sacramento, California 95833-4324
Phone: 916-679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	17324327.38509
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis Recovery**

Analysis results:	Transmissivity:	1.24E+5 [ft²/d]	Conductivity:	2.06E+2 [ft/d]

Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		
	Pump Time	5700 [min]		

Comments:

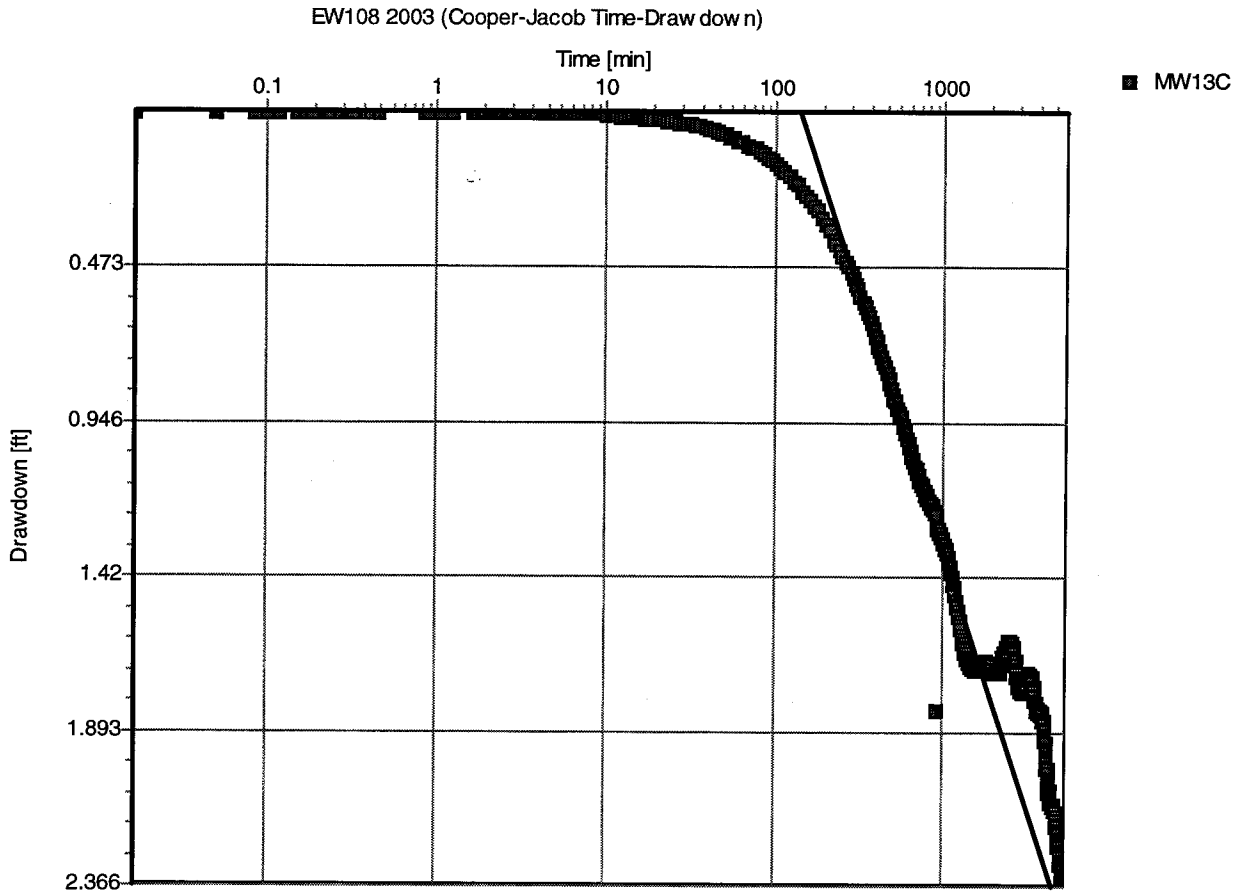
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Cooper-Jacob Time-Drawdown**

Analysis results:	Transmissivity:	5.19E+4 [ft²/d]	Conductivity:	8.65E+1 [ft/d]
	Storativity:	7.79E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

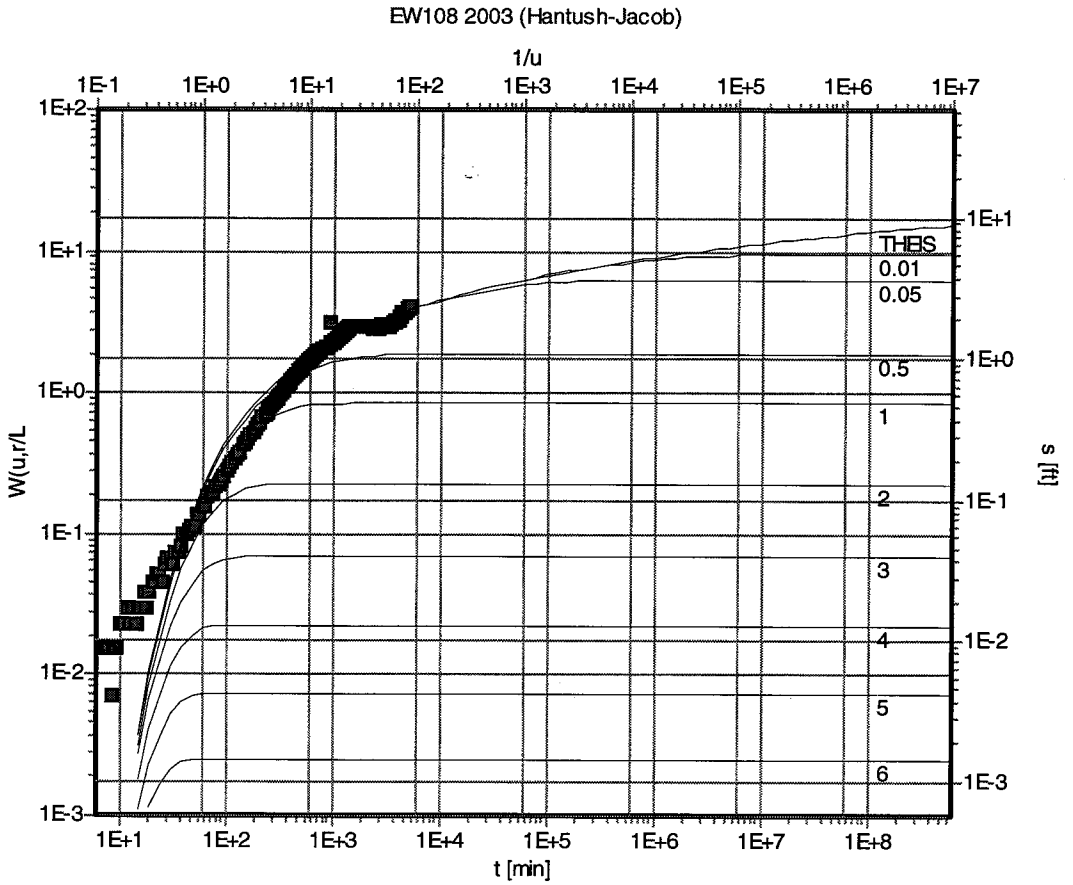
Evaluated by:

Date: 3/27/2003

URS
2870 Gateway Oaks Drive, Suite 300
Sacramento, CA 95833
Phone 916 679-2000

Pumping Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Hantush-Jacob**

Analysis results:	Transmissivity:	6.15E+4 [ft²/d]	Conductivity:	1.03E+2 [ft/d]
	Storativity:	7.19E-4	c:	3.37E+9 [min]
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	r/L:	0.01
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

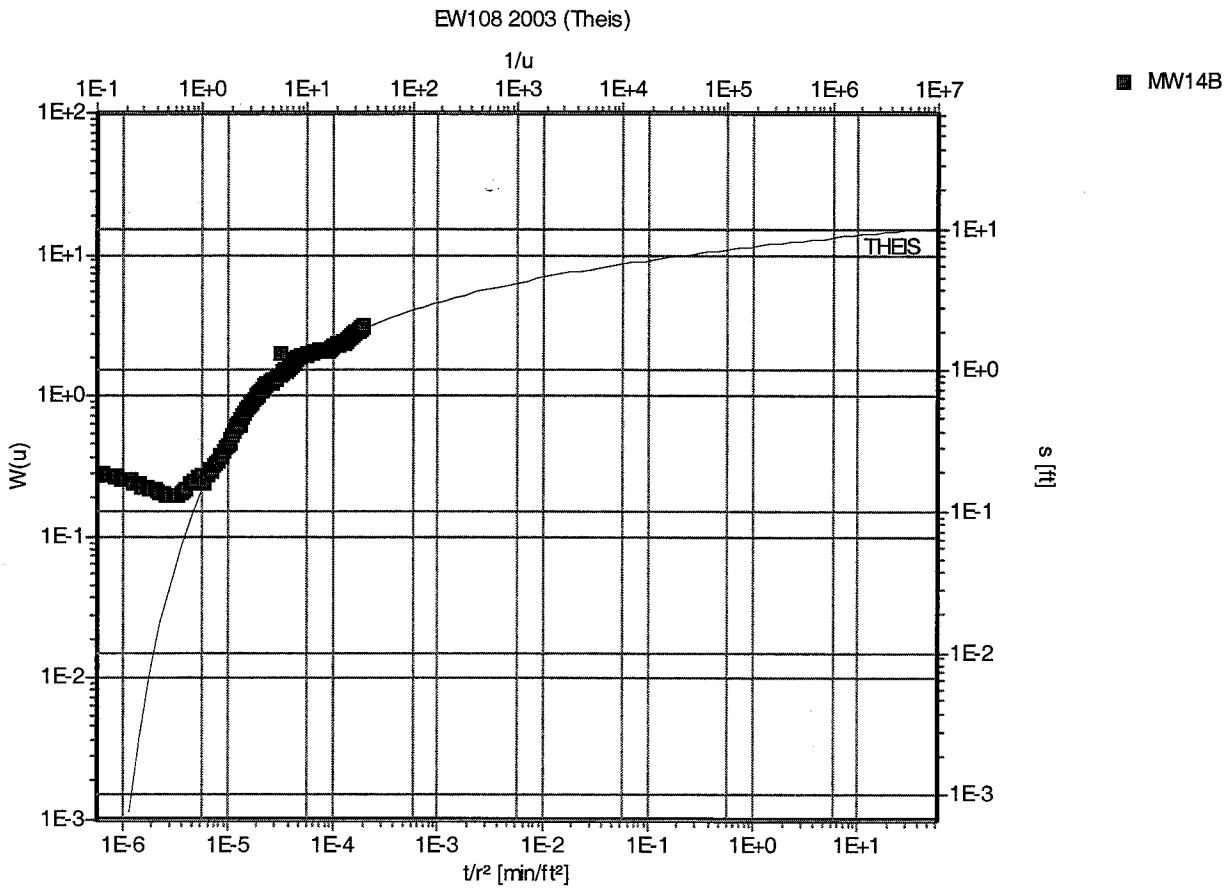
Evaluated by:

Date: 4/4/2003

URS
2879 Gateway Oaks Drive, Suite 300
Sacramento, California
(916) 679-2000

Aquifer Test Analysis Report

Project:	Muscoy Remedial Action Pump Tests
No:	41F2501600.07.02000
Client:	U.S. EPA



Test name: **EW108 2003**

Analysis method: **Theis**

Analysis results:	Transmissivity:	5.35E+4 [ft²/d]	Conductivity:	8.92E+1 [ft/d]
	Storativity:	8.50E-4		
Test parameters:	Pumping well:	EW108	Aquifer thickness:	600 [ft]
	Screen radius:	1.5 [ft]	Confined aquifer	
	Screen length:	460 [ft]		
	Casing radius:	0.83 [ft]		
	Discharge rate:	2300 [U.S. gal/min]		

Comments:

Evaluated by:

Date: 3/27/03